

The advantages of these Meters are best appreciated by a consideration of the evils they avert. The more prominent of these evils are the following :--

- 1. Inaccurate measurement, and varying registration.
- 2. Jumping of the lights, and their sudden extinction.
- Escapes of gas through the plugs being left out, or imperfectly secured, when the Wet Meter has been replenished with water.
- 4. The gas passing without being registered at all.
- 5. The temptations and facilities to fraud which it is notorious the Wet Meter presents.

These faults, characteristic protection of the Wet Meter, and fruitful in annoyance, interruption to business, pecuniary loss, and danger, are en-tirely averted by the use of George Glover and Co.'s Patent Dry Gas-Meter. It is, besides, more durable than the Wet Meter; and they maintain it in good working order for five years, free of cost to the purchaser; and for any number of years, at half the expense at which the Wet Meter can be maintained. As regards accurate measurement, correct registration, the absence of temptation to fraud, safety, convenience, and economy, the superiority of their Dry Meter is admitted; and it has come more rapidly into use, both in this country and abroad, than any Meter hitherto manufactured. hitherto manufactured.

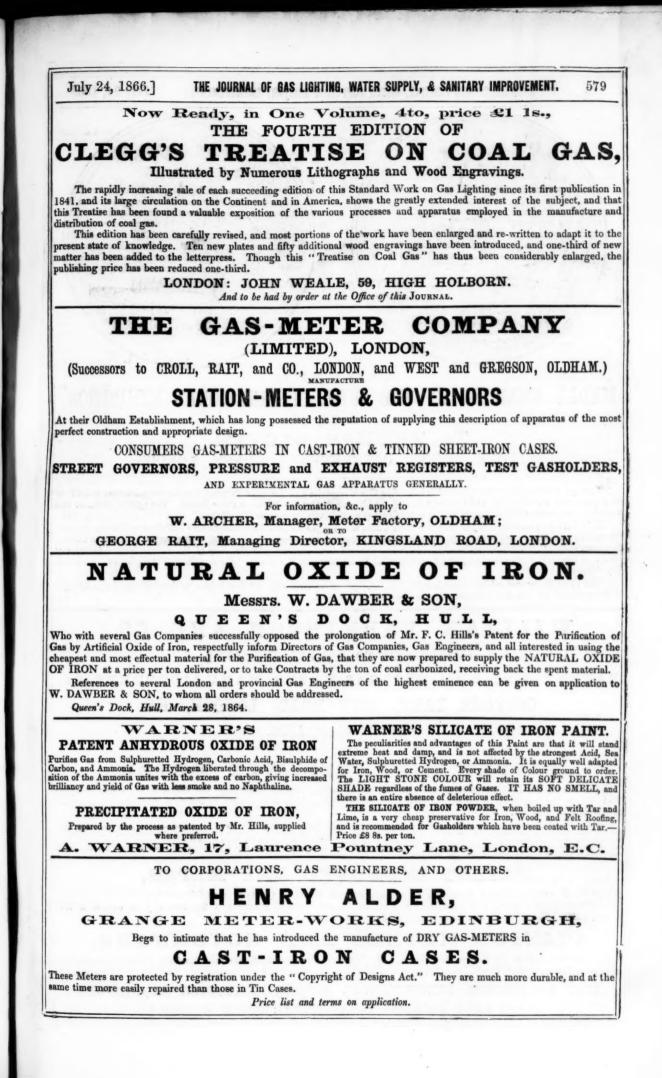
The prices may be compared favourably with those of any meters in the market ; and they are lower than most. List of Prices, and all Particulars, may be obtained on Application.

RANELAGH WORKS, RANELAGH ROAD, PIMLICO, LONDON, S.W.; 127, BOULEVARD DE MAGENTA, PARIS; AND 15, MARKET STREET, MANCHESTER.

The damage to house property which the impracticable attempt to keep the lights from jumping, by giving all the pipes a gradual ascent from the Meter, so as to admit of the water trickling back into it, necessarily occasions.
 The waste of gas from the higher pressure required to work Wet Meters, the possibility of the water freezing, and their axles and moving parts becoming corroded.

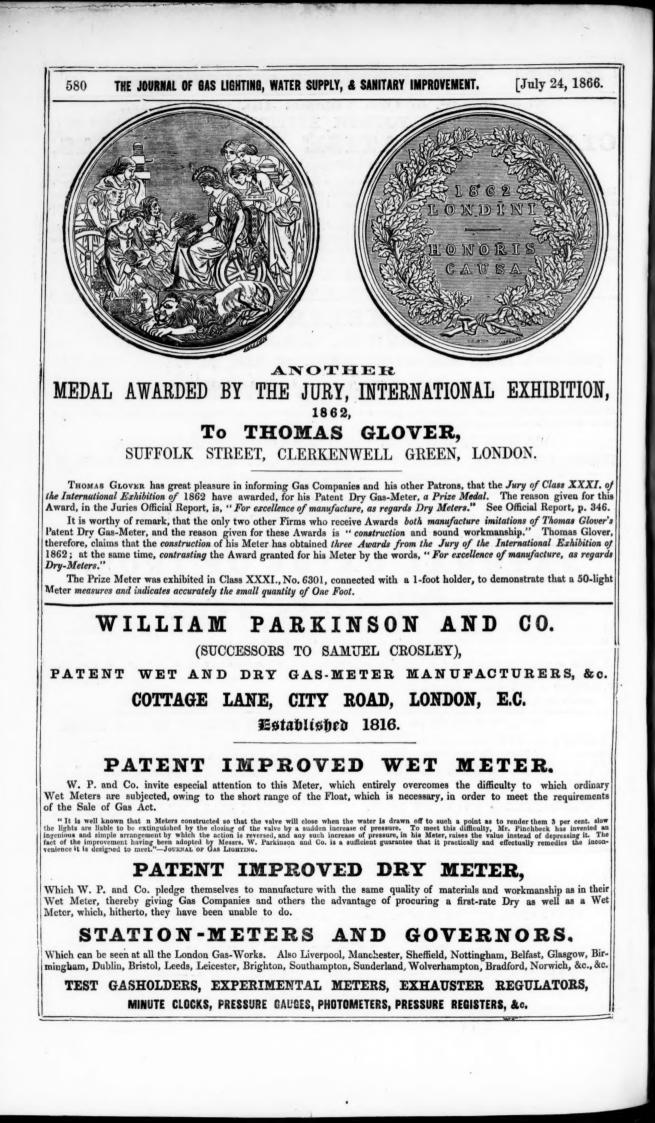






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# July 24, 1866.]

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## NOTICES.

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# THE JOURNAL OF GAS LIGHTING. WATER SUPPLY, & SANITARY IMPROVEMENT.

TUESDAY, JULY 24, 1866.

# Potes upon Passing Ebents.

Ar this time of the year, when travelling for amusement is in season, and in this particular year, when so much of the Conti-nent is closed to those who like to be sure of a conveyance, a

bed, and at least one good meal every day, it may be useful to extract from a French review some account of a Pyrenean watering-place which has not yet been completely appropri-ated by the English. Mont Vallier is one of the points of the Pyrenean chain, standing like a sentinel on the direct route from Toulouse into Spain. Under its shadow are the high valleys of Couserans. In these valleys are villages, poor, little known and little worth knowing. But one of them Aulus known, and little worth knowing. But one of them, Aulus, has become famous for mineral waters which have great virtue in strengthening exhausted constitutions, and, as it were, galvanizing vital energy. These waters are pleasant to drink and have no metallic after taste, but leave a yellow ochreous deposit on the cup, which has a very disagreeable appearance. Their value was discovered by accident in 1823, when detachments of the French army were posted, under the name of a sanitary cordon, along the line of the Pyrenees. One of the detachments quartered at Aulus was under the command of a young lieutenant, who, in consequence of disease and unwise medical treatment, was in an almost desperate state. Walking one day in the valley which stretches out below the hamlet at the place where the baths now stand, he came across an unpleasant looking spring almost hidden by flags and rushes. A margin of reddish slime marked the bed of the rivulet, air bubbles rose from the bottom and floated away amongst the herbage. A population of frogs, toads, and water newts, clustered about the banks of the waters, attracted by the tepid temperature. The peasantry never ventured either to wash or water their cattle at this spring. The lieutenant, who had some knowledge of thermal waters, suspected that this was a mineral spring. He drank four or five cups of it, and very soon found by his uncomfortable sensations that at any rate it was not common spring water. The next day he dug out enough of the bed of the rivulet to be able to bathe, and in the course of a month's perseverance in drinking and bathing in the ochreous stream, he entirely recovered his health and became quite fat. The news of this extraordinary cure spreading amongst the officers and surgeons of the army founded the reputation of Aulus. It is a curious fact that the owner on whose land this famous spring was discovered had travelled to several bath towns for the cure of pains which were only removed when he applied his own waters. In 1865 the baths of Aulus were visited by 1900 patients. Aulus, besides its springs, has in its environs some of the most picturesque scenery of the Pyrenees-impetuous torrents, grottoes, forests, lakes, and mountain barriers crowned with eternal snow. Amongst the falls of water are some of remarkable beauty and grandeur. Until recently, the chamois, or izzard, the wild goat, and the bear, were not uncommon; but the demands of the water-drinkers for chamois ragouts and the persecutions of sportsmen are rapidly destroying these last living remains of a truly wild and savage country. The tame goat formerly occutruly wild and savage country. The tame goat formerly occu-pied an important place in the domestic arrangements of the peasantry; until very recently every family had at least one she-goat, and the invalids who resorted to Aulus were wakened every morning by the song of the goatherd. At the first notes of the horn every goat left her stall to join the herd. The day was spent in skipping from rock to rock in search of grass and In the evening the flock returned to the village in a e. The herd marched first, his goats followed, and he shrubs. long file. never looked behind, as he knew that each would find her own dwelling, and that, when he reached his own hut, his own only would remain. But this branch of pastoral life is about to disappear under the influence of what, for want of a better term, may be called sanitary laws. "It was," says the writer of the article, "time; for the goats did enormous harm to the "country." It is one of the objects of the French Legislature to encourage the growth of wood on the mountains. The entire chain of the Pyrenees was, according to the accounts of Diodorus Siculus, covered with dense forests when the Iberians first drove their herds there. The first colonists set fire to the forests, either to clear them away for cultivation, or to help them in collecting the small nuggets of gold which were found in the chinks of the granitic soil. The unprotected soil, subject to the direct action of the sun's rays, and no longer held together by the roots of trees, slipped away continually under the pressure of avalanches, melting snow, glaciers, and torrents. To replant the mountains was the only means of arresting the progress of denudation and consequent total barrenness, but that was impossible as long as herds of goats pastured over the mountains, for it is the particular delight of this animal to crop growing shrubs. A few years ago a law

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against goat-keeping was put in force, to the extreme disgust of the peasantry, who avenged themselves in their own way. At the elections of 1865 they turned out all the municipal council. They marched up to the ballot-box with a degree of unanimity hitherto unknown in that part of the world, and replied invariably to those who inquired for whom they voted, "Pourtan les que soun pellas crabos"—"We vote for those "who are for the goats." Thus they tried to avenge themselves on the Government. The word government embodies all the peasant's idea of politics, Government in his eyes is on omnipotent monster, of a meddlesome disposition, with no feeling for poor people, who levies taxes, sends gendarmes, and lives in Paris.

The bear has not entirely disappeared from the mountains of Aulus, and when one is slain the demand of the Parisian cockney for bear's flesh raises the price to something like seven francs a pound. But it is seldom worth eating. A young bear may be tolerable, and retain, according to the tradition of gourmets, something of the flavour of the strawberries, rasp-berries, and cranberries on which he feeds; but the flesh of an old bear is rank and nauseous. The dancing bear is an established institution in the Pyrenees, and often forms the whole fortune of a family. When a girl marries she receives a bear's cub as her dowry; her husband trains it, and, when its education is completed he takes it on a tour, and, if economical, often returns home with a small fortune. But the greatest zoological curiosity in old Couserans is the peasant of Aulus— a specimen of a tribe almost extinct. He cannot be studied to advantage in the village, corrupted by contact with bath visitors, but at the foot of the snowy regions, in the midst of bis correst at the moment when he offers you a how of milk his cows, at the moment when he offers you a bowl of milk. His features are regular, his expression serious and decided ; his nose, sharply hooked, gives the idea of a bird of prey or of a conquering race. The old Pyrenean costume sets off his lofty stature. It is the same as that of his neighbour, the Catalan muleteer, but the presence of snow has made the stuff thicker, and modified the colour. All the garments are cut from one piece of cloth, of an earthen-grey colour. A broad The gaiters sash of red or blue contrasts with his gaiters. up to the breeches leave the knees bare when he is sitting down. A round hat with enormous brims turned up all round is placed on his Phrygian cap, and serves him as a parasol in summer and an umbrella in winter. On days of ceremony he casts over his shoulder an enormous tawny cloak, an heirloom transmitted from generation to generation. These hardy pastors remind one of the Gauls of early history, before whom the ancient world trembled. The descriptions of Cæsar, of Dio-dorus, and Livy seem realized. These are the descendants of the bold race whom Brennus and other chiefs led to the storm of the Capitol, to the sack of Delphi, and to the conquest of the rich empires of the West. It is from these mountaineers that the inhabitants of Bordeaux, Toulouse, and Marseilles obtain their porters and labourers. Those who remain in the villages migrate in summer with their live stock to the mountains. They make a wretched hut of turf and brush-wood, into which they are obliged to creep on all fours, and sleep on a bed of dry leaves. The fine weather is employed sleep on a bed of dry leaves. The fine weather is employed in feeding their herds and making cheese. In July and August they make hay and store it for the winter. They live on black bread and the whey left from the cheese. On the first occurrence of frosts they descend into the valley, shut their animals up in stables, and twice a day go from the village to the grange to feed and tend them. This work done, you see them standing about the village, their hands thrust in their broad blue woollen belts or resting on a long staff, notionless, impassive, their feet in the snow, their faces bare to the cold wind of the mountains—they look like the patriarchs of the Old Testament gathered together at the gates to discuss the affairs of the city. Here they have not many topics— whether the provender will last out the winter—whether the Government will continue to impose on the ancient rights of To this mode of life their lofty stature is the commune. attributed. Almost all the recruits from this district go into the heavy cavalry. "As you descend from the pastoral to "the agricultural region, the height of the population dimi-"nishes." Is this so in Scotland? We doubt it. "The "women are equally tall and strong, and wear a costume "like the Grey Sisters." But this costume, still universal in the higher valleys of the Couserans, has been almost abandoned at the watering-place of Aulus in favour of French fashions. But habits and customs are more difficult to change

than costume; regular work is repugnant to this tribe of shepherds and herdsmen. Almost all the hotels are kept by the inhabitants of St. Girons in the lowlands, and women of the valleys bring eggs, poultry, vegetables, and fruit for sale. The writer says that he has only known two persons who have availed themselves of the demands created by the resort of strangers to the mineral waters-a father and son, who have become professional fisherman, and supply trout which abounds in the mountain streams. All the rest of the male population follow pastoral pursuits. In the exploration of the lakes, glaciers, and cascades, you often come across a hut on the borders of a stream, and nearly hidden by surrounding rocks. The inhabitants are not far off. As soon as you are seen the young herdsman appears, his lips stained with wild cherries or bilberries, and offers you "mountain He takes from a corner of his cottage an earthenmilk." ware jar of the freshest cream—a small carved wooden ladle serves for both spoon and bowl. When you examine curiously this primitive specimen of mountain manufacture, he offers to sell it, and observes that "last year a Parisian paid forty sous "for one like it." The highest hope of these poor people is "for one like it." The highest hope of these poor people is to obtain a few pence. The greediness characteristic of an extremely poor country produces curious results in the course of the bargains for purchasing land and erecting baths. A field containing a doubtful spring would often be the joint property of ten peasants. If one agreed to part with his share, the other nine often asked such a price as to render a sale impossible. Some years ago, a capitalist from Toulouse thought of establishing a company to erect a complete bathing establishment, after the fashion of the German towns. After many interviews, he had settled to purchase a suitable spring and plot of ground, but on meeting at the notary's to close the bargain, the wife of the peasant declared that she must have as much as her husband. After further negotiation, the Toulousian agreed, and all seemed settled; but, at the last moment, the mountain pair claimed to have a fourth of the future profits. "I intend," said the Toulousian, "to put down "f1000 and you shall have a fourth of the income." "Im-£1000, and you shall have a fourth of the income. " Impossible, my kind sir," said the herd; "we have not a far-" possible, my kind sir, said the herd; " we have not a far-" thing, but we are strong, and when we build my wife and I " will work as labourers." It took time to teach these semi-savages that strangers brought prosperity; the first visitors were pelted when they ventured on a walk in the environs. Now they know better, and arrange their charges according to whether a visitor is from Toulouse or Paris. The Parisian is their idea of a millionaire, and is charged twice as much for lodgings as any inhabitant of the neighbouring district.

The Bill for improving the dwellings of artisans and labourers introduced by Messrs. Torrens, Locke, and Kin-naird, is of a more revolutionary character as regards the dwellings of the labouring classes than any measure suggested during the present generation. We are not sure that it is any the worse on that account-serious diseases require strong remedies. Wherever an officer of health has not been appointed, the appointment is made compulsory. It become the business of the officer of health to report on every dwelling that he considers injurious to health. But if he neglects to report, then any four householders may report. Such reports to be delivered to the clerk of the peace or his representative. The clerk must bring it before the Court of Quarter Sessions, tive. or stipendiary or other local magistrate. The magistrate may order a survey and plan and specification of work required, and, unless the owner's opposition is successful, further order the execution of the same. The owner must execute the im-provements, repairs, or demolition, or sell the property to the local authorities, who may execute themselves what the owner refuses to do. If the owner demolishes condemned buildings, he cannot re-erect without his plan of lodging-houses or cot-tages being approved. The Public Loan Commissioners to have power to lend to local authorities for the purposes of the Act. There is plenty of work for an active committee of philanthropists, with a staff of a sharp lawyer and an ambitious architect.

The institution of the Volunteer army, amongst other useful effects, has exercised a useful influence on military reform. An intelligent public opinion has been created on all practical subjects, for example, the trials of breech-loaders at Wimbledon has been on a scale and by a number of intelligent deeplyinterested persons, which cannot fail to be of material use to the Government in coming to a decision on the future small arms of our army. The Wimbledon encampment represents July 24, 1866.]

# THE JOURNAL OF BAS LIBHTING, WATER SUPPLY, & SANITARY IMPROVEMENT.

all the degrees and shades of society—the power of publicity and discussion is largely exercised—mechanics can advocate their inventions and improvements without official check—the press records all that takes place, and present and future legislators collect the best kind of evidence for use in parliamentary debates. It is a sign of the times and of the latest form of competitive examinations that General Peel, once of the stiff stock and close-shaved school of stay-at-home soldiers—one of those who viewed with dislike all the military changes introduced after the Crimean War, and once especially cold toward the Volunteer army—now comes out hot and strong as a reformer of military arms and accourtements, following the lead of his secretary, an earl, who has been actually trained in camps.

How hard it is to get at any truth about public works in India. We have long been taught to believe that General Cotten's irrigation works in Madras were remunerative in the highest degree, paying 50, 60, and 100 per cent. on capital. For the success on the Godavery, General Cotten was pro-moted and decorated. At one time General, then Colonel, Cotten formed a school of Indian reformers, whose theory was not only to promote inland navigation and irrigation, but to oppose the guarantees on which Indian railroads have been executed. General Cotten was all for water, and could not bear the sound of a railway whistle, which he looked on bear the sound of a railway whistle, which he looked on as the signal of waste money as well as steam. When introduced to state his views at the Institution of Civil Engineers, many years ago, he could not be brought to see that railways would "rip up" the Indian peninsula with a power and effect that no other improved means of locomotion could, and so prepare for roads and water-ways. He was for water, and water only. There was another school, He was for water, and water only. who maintained very stoutly that railways in India could never pay, and they proved it—on paper—very completely. Now, as to railways, time has silenced the croakers. Sixty millions sterling have been laid out, with admirable results, commercial and military, and on this vast sum only half a million a year has to be paid to make up the guaranteed 5 per cent., and even this charge will disappear in a few years. But, as to the irrigation works, although no one ventures to say that they are not as essential and profitable as thorough drainage in our sticky soils, Mr. Smollett, once himself an Indian collector in the Madras Presidency, declares that the profits of 50 and 100 per cent. are all fudge, and the result of cooked accounts, which, by order of superior authority, he had helped to cook ! No one contradicted Mr. Smollett as to his most serious Avoid the contradicted Mr. Smolett as to mis most serious charges, but then there was no old Indian present except Mr. Ayrton, from another presidency. Lord Cranborne, the new Indian Minister, instead of being, as country politicians ex-pected, one of the "Old Rock" opponents of all change, passed over for the present the per centage part of the irrigation ques-tion, and boldly committed himself to a policy of "peace and "public works," in which irrigation must hold a large place. We observe, by the last Australian news, that Victoria, the

We observe, by the last Australian news, that Victoria, the most wealthy and enterprising of the group, has determined to spend a million of money in storing water throughout the colony, for domestic and agricultural purposes. The rainfall of Australia on an average of years is ample, but the conformation of the country affords little natural storeage. Victoria has always been in advance in the matter of public works. If this storeage experiment succeeds, it may alter the character of the cultivation throughout Australia. In Queensland, it is proposed to try artesian wells in the districts below the Darling Downs range. The experience of the French in the deserts on the outskirts of Algeria affords encouragement to the attempt.

Mr. Gregory has not allowed the session to close without pressing upon the Government his favourite idea of a purchase of all the Irish railways and a large reduction of fares at Government expense. We are not prepared to say that, looking at the peculiar condition of Ireland and the small amount of capital invested in Irish railways, there may not be sound arguments for treating the railway system in an exceptional manner, and for considering the propriety of a loan on condition of large amalgamations, large reductions of staff, and a rational regulation of fares. But Irishmen who advocate this kind of Government interference should be reminded that it involves an acknowledgment of the inferiority of the Irish to manage their own affairs; it means that our Irish directors are such jobbers in their purchases and appointments of offices are so litigious and incapable of arranging traffic agreements and amalgamations for mutual advantage of shareholderslook at railway business so entirely as a means for providing for directors, their friends, and relations—that, like the frogs, we must apply to the English Jupiter for a king. This is what the complaints of Irishmen as to the railway management imply. We wait for the full evidence taken by the Railway Commissioners before deciding how much of commercial worth there is in these railway groans.

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If the Admiralty were held in shares, decidedly the stock would have risen in value in consequence of the change of Administration and the debate of the 20th in the House of Commons. When, many years ago, the Radical free-trader, Mr. J. B. Smith, called the attention of the then Secretary at War, Mr. For Maule, to the needle-gun which has lately changed the face of Europe, his answer, without looking round, was, "We know " all about it." But "we " did not know anything about it, as time has proved. There has been too much of "we know all " about it" in the Admiralty department. Even now Lord John Hay thinks that the inventor of turret ships was cordially received. But the manner in which the suggestions of Mr. Samuda, Mr. Laird, Sir Morton Peto, and Mr. Graves, were received by Sir John Pakington and Sir John Hay show that we have to deal with men who have a reputation to make and The fate of the Italian fleet will afford some further know it. facts as to both guns and armour plates. We shall probably no longer have all the inventive talent of the country subject to the arrangements of one, and that a rival, inventor at the Admiralty. This discussion shows a turning-point in the history of our Administration. Intelligent outside opinion is no longer to be pooh-poohed by officials, whose chief qualifi-cation is their office. This discussion shows a turning-point in the

# Circular to Gas Companies.

THE House of Lords having rejected the Chartered Company's Bill, seeking for power to erect gas-works at Hackney Wick, have since rejected the Bill for the amalgamation of that comhave since rejected the Bin for the analgamation of that com-pany with the City Gas Company, partly on the ground that the advantages proposed to be gained by the amalgamation would be rendered in a great measure nugatory from the want of the new site of the works. Such, at least, was one of the objections raised by the counsel for the Corporation of the City of London, who petitioned against the Bill. With a new site, of London, who petitioned against the Bill. With a new site, he observed, there would no doubt have been a great public advantage in the amalgamation, but as the site Bill had been lost, and nothing further could be done in the matter until next session, it was not desirable the amalgamation should take place. The main objection, however, that was raised to the Bill by the Corporation was, that an amalgamation of the two companies would have an effect in obstructing any however, the main objection with each approximate the mainter the main objection. bargain they might wish to drive with each company separately. It was contended that some general measure respecting rately. It was contended that some general measure respecting the supply of gas to the metropolis would be introduced next session, and that the carrying into effect of any future mea-sure for an amalgamation of all the gas companies would be hindered by the passing of the Bill. Mr. Webster, the counsel for the Corporation, therefore, prayed the committee not to pass it this session, as it would be obstructive to future legislation. This argument had more weight with their lordships than the evidence produced, to the effect that by the amalgamation the united company would be able to supply better and chaeper gas to the public, as there would be economy in every detail of the manufacture. The committee, after a brief con-sultation, decided that it was not expedient to proceed further with the Bill, which is consequently lost, and the two com-panies are left to get on as well as they can with their present means of supplying a rapidly increasing demand for The City authorities may chuckle at the present succes of their factious opposition to the gas companies; but it will be for the citizens, in their calmer moments, to reflect whether their interests have been promoted by these unworthy attempts to obstruct the gas companies in their endeavours to place themselves in a better position to fulfil their obligations to the public, and to remove to a more convenient and really unobjectionable locality the works that are now surrounded by a

dense population. The Imperial Company, though defeated in their two first attempts to obtain additional powers, have at last succeeded in carrying a third Bill through both Houses of Parliament. The Bill No. 3 is limited in its objects to authorizing the company to raise more money to enable them to discharge existing

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liabilities and to fulfil the obligations imposed on them. They are authorized to increase their present capital of £1,300,000, by the creation of new shares, to an amount not exceeding  $\pounds 325,000$ , bearing a maximum dividend of 71 per cent., and to borrow on mortgage  $\pounds 81,250$ . The new shares are to be apportioned among the existing shareholders, at par, and are to be of such a nominal amount as will allow of their being so apportioned. No money is to be borrowed until the whole of the additional capital has been subscribed for, and one-half paid up, and all former mortgages are to have priority. The company are also empowered to create and issue debenture stock. This Bill is identical with Bill No. 2, which failed in consequence of the Standing Orders Committee of the House of Commons having refused to recommend that the Standing Orders should be suspended in its favour. It appears that the committee ultimately yielded to the representations made to them, that part of the money was required to discharge obliga-tions already incurred, and allowed a new Bill to be introduced. The Bill now only awaits the third reading in the House of Lords and the Royal Assent to become law, and the Imperial Company will then be relieved from the greater part of the financial difficulties in which they were thrown by the unforeseen rejection of their first Bill, which included among its provisions power to erect new works at Old Ford.

The remarks we made, on the 12th of June last, on the report of the committee instructed to inquire into the operation and results of the Metropolis Gas Act, have been reproduced, with considerable additions, in the form of a pamphlet by "A Shareholder in the Metropolis Gas Companies." The title of the pamphlet is, "Notes on the Report of the Select "Committee," and the paragraphs of the report are quoted separately and commented on seriatim. The principal additional remarks are those on the 18th paragraph, wherein the committee recommend that the system of districts should be continued, and that, with a view to the economy of administration and the convenience of the consumers and of the public, every facility should be offered for the further extension of the system of regulated monopoly. "A Shareholder" properly observes that, though the committee suggest these new arrangements, it must not be inferred that any want of economy on the part of the companies, or any inconvenience to the consumers or to the public, has been shown to result from the existing state of things, for not a single witness attempted to establish anything of the kind. The case of the Manchester Corporation, it is remarked, "was put forward as a model " instance to show what local authorities could do, but in " truth it merely shows the effect of a gas monopoly undis-" turbed for fifty years; for, notwithstanding the extraordi-" nary advantages which the Manchester Corporation have "had in the mode of raising their capital, and in other "respects, their representatives admitted, on cross-examina-"tion, that Liverpool has been supplied more advantageously by "a company, although monopoly there has not existed half "the time it has at Manchester. If the London monopoly, "like those of Liverpool and Manchester, be allowed to " remain undisturbed, the price of gas must be continuously " reduced, especially as the back dividends are now paid off." The presentation, in the convenient form of a pamphlet, of this defence of the metropolitan gas companies from the aspersions of the committee is all very well, and may do good service, but something more is wanted at the present time to dicabuse the public mind of its unfounded prejudices against gas companies in general, and to show that the manufacture and distribution of coal gas is a business that requires much scientific and practical knowledge, and that the profits gained and divided by companies placed under parliamentary regulations are not greater than afford a reasonably adequate remu-The gas companies would do well to secure the neration. services of some popular writer to state their case plainly and briefly, and to expose the fallacy and absurdity of erroneous, and often interested, misrepresentations, and the nonsense and the twaddle that are spoken and written on the subject.

The continued advances in the rates of wages and the price of coals, and other items which regulate the cost price of gas, are beginning to tell on the balance-sheets of gas companies, and it will be perceived, from a paragraph copied in another column from a Scotch paper, that the Edinburgh and Leith Company and the Dundee Companies have been obliged to diminish their dividends, and that throughout Scotland the gas companies are affected more or less by the same causes, which must in a short time compel them to raise the price to consumers. These circumstances prove that some margin should be left in fixing the parliamentary maximum price to be charged to consumers, to provide for such contingencies; and that companies who, like the Brighton and Hove Company, have accepted a maximum which at the present rates of wages and materials will yield them only a bare profit, may have that little entirely absorbed by advances on the current rates.

Gas companies on the Continent generally fare better than in the United Kingdom, though, as most of them are established by concessions for fixed periods, the terms of their existence and prosperity are limited, and some of them are approaching an end. The Hamburg Company have recently declared a dividend of 42 per cent. on the last financial year, and there are eight years of the concession yet to run. The price charged to private consumers is 7s. 2<sup>1</sup>/<sub>4</sub>d. per 1000 feet in English money and measure, while the public lights are supplied at the extremely disproportionate price of 2s. 11<sup>1</sup>/<sub>2</sub>d. This rate of dividend is by no means an extraordinary instance of the prosperity of the Hamburg Gas Company, for in 1863 they divided 38, and in 1864 41 per cent. The quantity of gas sold during the last year amounted to 435,169,180 Hamburg cubic feet.

The Kingston-on-Thames Corporation have at length put a stop to the anomalous, if not illegal, course they adopted in 1861, of appointing an inspector of meters who was to be remunerated not by a fixed salary, but by fees received for stamping meters for London manufacturers. The Metrostamping meters for London manufacturers. The Metro-politan Board of Works naturally felt aggrieved at having the business of their inspecting officers taken from them by competition in meter stamping at Kingston, but so long as the trade was carried on within the borough they could not put a stop to what was, in principle at least, a contravention of the Sales of Gas Act. When, however, the meter inspector of Kingston took offices at Camberwell to carry on the business of meter stamping there, with the stamp of the Kingston Corporation, and thus brought his competition with the Metropolitan Board close to their own station in the district, such a glaring departure from the provisions of the Act could be no longer tolerated, and after one or two ineffectual attempts a conviction before a police magistrate was at length obtained, and Mr. Taunton was fined  $\pm 5$  for having stamped meters out of his own district. The Board then made a representation of the case to the Kingston Corporation, stating that they were advised by counsel that the Corporation were responsible for the fees illegally received for stamping meters, and that should the Corporation countenance Mr. Taunton's further proceedings, steps would be taken against them "for acting in conspiracy "with Mr. Taunton." That gentleman was accordingly summoned to attend a meeting of the Lighting Committee at Kingston, but he did not appear, and in his absence he was suspended from his office. That occurred on the 17th of May, after which a correspondence took place between Mr. Taunton's solicitors and the town-clerk of Kingston, and it was intimated to the Corporation that they had rendered themselves liable to an action for damages for having made repre-sentations injurious to their client. This correspondence is transferred to our columns from a local paper. At a meeting of the Town Council of Kingston on the 12th inst., the correspondence was laid before them, and a resolution was carried for the dismissal of Mr. Taunton from his office of meter inspector for the borough. No successor has yet been appointed, and the stamp No. 45 cannot, therefore, be lawfully used. The purchasers of meters so stamped should, for their own security, require from the manufacturer a guarantee that the meters were stamped within the borough of Kingston before May 17th, the date of Mr. Taunton's suspension from office.

The appointment of Mr. Gathorne Hardy, Q.C., to the presidency of the Poor-Law Board will raise the expectations of all who suffer from the interpretation given by the Courts at Westminster to the Parochial Assessment Act. Being himself a distinguished lawyer, chairman of quarter sessions, and formerly, if not at present, largely interested in industrial undertakings, he cannot fail to have perceived that establishments of which the owners are also the occupiers are substantially rated on their profits, while other properties are rated on their hereditaments only. The judges have repeatedly pointed out the unsatisfactory state of the law, and have expressed the hope that it would be amended, but no one has hitherto been willing to undertake the task. With practical men in office like Mr. Hardy and the new Solicitor-General, there is at last some chance that justice may be done; and we recommend that July 24, 1866.]

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before the prorogation of Parliament a movement should be made by gas and water companies with the view of obtaining relief from the present mode of assessment.

The gas agitators among the Commissioners of Sewers of the City seem to possess an unblashing amount of assurance, and venture to make propositions at the meetings of the court which few persons who have any regard to personal respect-ability would hazard. It might be supposed that after the exposure of their attempts to intimidate Dr. Letheby for having told some unpalatable truths to the committee on the Metropolis Gas Act, they would have been glad to let the matter drop, and not again have manifested their desire to avenge the downfall of the Corporation gas scheme. But when the ques-tion of continuing the appointment of Dr. Letheby as gas analyst of the City came before the Court of Sewers last week, about half a dozen of the most rabid of the agitators pertinaciously endeavoured to obstruct the appointment. In the first place, it was proposed to reduce the salary of the office from  $\pounds 200$  per annum to  $\pounds 100$ , though the latter sum is paid by Dr. Letheby to an assistant. Another proposition was, that the assistant should be appointed, instead of Dr. Letheby ; and again, that the appointment should be limited to three months. All these factious propositions, however, were rejected, and the original motion—that the appointment, at the full salary, should be continued to the end of the year—was carried. Unfortunately we had no reporter present, and we are obliged to take the report of what occurred from the *City Press*, which, we understand, very inadequately represents the disgraceful commotion raised on the occasion by the rampant dissentients.

A sensational paragraph, headed "Gas for Less than No-"thing," has been going the round of the country papers, and has excited some curiosity. The paragraph is to the following effect --

has excited some curiosity. The paragraph is to the following effect :— Gas ron LESS THAN NOTHING.—There is at present to be seen, at 16, Newton Street, High Holborn, an extraordinarily simple little contrivance, by which it is shown that gaslight, about the cost of which and the griev-ances connected with which so much has lately been said, can be manu-factured for positively less than nothing. The discoverer of this latest gas manufactaring improvement is Mr. Russell, a gentleman well known in the world of ingenuity as a patentee of several remarkably useful and publicly beneficial inventions. If Mr. Russell's new gas possesses half the advantages he claims for it, and which he certainly seems to prove pretty clearly at his temporary works in Newton Street, it will create a revo-lution in our present means of producing artificial light of an extensive character. Visitors to the temporary works at Newton Street, will find that Mr. Russell can prove to them that he is able to extract gas from vegetable substances which, up to the present, have been treated as utterly neeless, and which, better still, after producing the gas becomes mature of cash-convertible value, so that the more of the new gas one manufactures and consumes, the greater advantage it will be to him pecuniarily. If this be so, it only remains for us to come to the happy conclusion that we can light our houses with gas for less than nothing. Allied to this startingly agreeable peculiarity, Mr. Russell claims for bis "new lights" much superiority, in a variety of ways, over the gas at present in general use. Among them are its freedom from of smoke or soot; its innocuous qualities being perfectly free from sulphur; the ease with which it can be adapted for domestic parposes, by the rapidity and absence of complication in the generation of the gas, the only thing necessary to enable a private family to make their own gas distributed to the public. The appliances necessary for their ordinary cooking operations being one of Mr. Russell's processe

From inquiries we have made it appears that Mr. Russell's gas is manufactured from cocoa-nut shells, and that a high value is attributed to the residual charcoal. The process is by no means novel, for as long ago as Feb. 12, 1829, Edward Heard patented "Improvements in illumination, or producing artifi-" cial light." and cocca-nut shells were one of the substances cial light," and cocoa-nut shells were one of the substances from which he proposed to manufacture his gas.

# Correspondence.

# BRITISH ASSOCIATION OF GAS MANAGERS.

HOT-AIR BURNERS. SIR,--Referring to the hot-air burner, illustrated in your im-pression of yesterday, and accompanied by a letter from Dr. Letheby, I write to say that I and some others had a burner ex-actly similar to that indicated as that of Bowditch, made and tested for economic accompanies on the same set of the set of th for economic consumption of gas in the year 1837, in Dundee. Ness House, Cheltenham, July 11, 1866. W. Esson.

# Register of new Patents.

2620.—JAMES CRUTCHETT, of Stroud, Gloucestershire, at present at Washington, U.S.A., for "Improvements in the manufacture of gas." Patent dated Oct. 11, 1865.

Patent dated Oct. 11, 1865. This invention relates to the manufacture of gas for lighting and heating purposes from coal and other materials. For this purpose the coal is re-duced to small particles or powder by any suitable mechanical means, which powdered coal is injected in small quantities at regulated intervals into the retort or oven by means of a jet of steam, compressed air, or by other suitable mechanism arranged so as to throw it in a the front end or top of the retort as the coal dust is fed forward or supplied from a hopper. The pulverized coal may, if desired, be introduced into the retort or oven in combination with petroleum or other oils, together with sawdust or other carbonaceous materials forced or injected into the retort, as pre-viously described; or petroleum or other suitable oils may be injected into the gas-retort by means of a jet of steam or otherwise.

2622.—WILLIAM EDWARD GEDGE, of 23, Southampton Buildings, Chancery Lane, London, for "Improvements in double or single action pumps." A communication. Patent dated Oct. 11, 1865. The specification of this invention requires the aid of drawings to make

it intelligible.

2632.—JEAN URSIN BASTIER, of Gower Street, London, civil engineer, for "Improvements in apparatus for raising liquids." Patent dated Oct. 12, 1865.

Oct. 12, 1865. This invention relates to a former invention known as "Bastier's Chain Pump," for which letters patent were granted to Antonio Pelez, April 1, 1858, No. 692. The present improvements consist, first, in making the pulley over which the chain passes at the top with cogs, teeth, or projec-tions to take hold of the links of the chain, and with three or other con-venient number of recesses or cavities at the same distance apart as the diacs carried by the chain, which recesses or cavities receive the discs as they pass over the pulley. The cogs, teeth, or projections are held be-tween two plates secured to each other by bolts, so that when the teeth are worn out the plates and teeth may be readily removed and replaced by others. Second, in making each link of the chain with a tie-piece in the middle, in order that it may be the better held by the projections of the pulley. Third, in forming the chain in lengths of about a yard, more or less, and in connecting the end of each length to a plate running ver-tically through the disc by means of a pin and nut, which pin is passed throug.' the plate and through the two sides of the link. Fourth, in forming the tube or column in which the liquid is to be raised, with a contracted part about 9 feet in length, more or less, at about every 50 yards, in order that the discs in passing through such contracted parts may produce a sucking action. The tube is formed by preference of cast iron enamelled, both inside and outside. Fifth, in constructing the diacs as follows:—Two metal washers are secured by pins or otherwise to the vertical plate before mentioned, and hold between them three india-For name new, both make and outside. Fitch, in constructing the data as follows:—Two metal washers are secured by pins or otherwise to the vertical plate before mentioned, and hold between them three india-rubber washers, the middle washer of which is of larger diameter than the other two, while the bottom washer of which is of larger diameter than the top one, in order that it may raise the edges of the middle washer after it has passed through each contracted part of the tube.

2646.—RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, London, for "An improved liquid compound for purifying sea and other waters." A communication. Provisional protection only obtained. Dated Oct. 13, 1865.

13, 1805. This invention consists of a liquid compound for purifying sea, ferrugi-nous, and other waters, so that when used for feeding boilers incrusta-tion may be prevented, and when for washing, scouring, and cleaning, their qualities may be improved. The composition is formed thus, and in or about the proportions stated :--21bs. of orystals of soda; 9 oz. of quickline, slaked and pulverized; and 8 lbs. of water. These materials are placed in a pan and boiled for about an hour; the pan is then removed from the fire, the contents allowed to cool, and the liquid then drawn of clear. removed from u drawn off clear.

2660.—ALBERT JULIUS MOTT, of Liverpool, wine merchant, for "Certain improvements in the production and uses of carbonic acid gas." Patent dated Oct. 16, 1865.

dated Oct. 16, 1865. The materials from which, according to this invention, the carbonic acid gas is produced or evolved, are alum in the form of crystals and an alka-line carbonate in solution. That these materials may be beneficially em-ployed in the production of the said gas special apparatus has been devised, in which two forces are constantly in existence—the one the pressure of a column of the said alkaline solution, and the other the pressure of a column of the said alkaline solution, and the other the pressure of the gas evolved when the said solution comes in contact with the alum crystals—and it is by the alternate predominance of these forces that the apparatus is rendered self-acting when once adjusted and carbonic acid advantageously produced as required.

2674.—CABL GUSTAVE LENK, of Dresden, Saxony, now residing at 6, Lawrence Lane, London, machinist, for "An improved process for purifying and preserving water." Patent dated Oct. 17, 1865.

purifying and preserving water." Patent dated Oct. 17, 1865. To effect this process, about 12 parts of alum, about 32 parts of alumi-nate, either neutralized or not; about 2 parts of carbonate of soda, and about 1 part of solution of iron or of hypermaganate of potsab, are dis-solved in about 240 or 300 parts of water; and this mixture is poured into the water to be purified and preserved, in the proportion of 5 to 10 drops to the quart of water, according to the degree of its impurity, and all the organic and inorganic impurities are precipitated. If the water is for immediate use the alum and the aluminate only need be employed; but, if it is desired to keep it for any length of time, the carbonate of soda with the solution of iron or hypermaganate of potsah should be added either to the mixture as above mentioned or to the water its purified. When the water has been purified it should be drawn off by means of a tube passing into the centre of the vessel, and raised slightly from the

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ottom, so that no precipitated impurities can be drawn off with the

706.—CHARLES DENTON ABEL, of 20, Southampton Buildings, Chance Lane, London, for "Improvements in rotary pumps." A commun cation. Provisional protection only obtained. Dated Oct. 20, 1865. 2706.

Lane, London, for "Improvements is rotary pumps." A communi-tation. Provisional protection only obtained. Dated Oct. 20, 1865. This invention consists in constructing rotary pumps of a disc mounted on a spindle, and made to revolve inside a cylindrical casing, which disc fits with its flat sides against the flat aides of the casing, and is made at one point or at two opposite points of its periphery to come in contact with the inner circumference of such casing by means of suitable metallic or other packing, while between the other part of its periphery and the circumference of the casing there exists a considerable space in which the fluid is conveyed from the suction to the delivery pipe. A metal alide fitting closely against the sides of the casing, and passing through a slit in the same, rests with its edge upon the periphery of the rotating disc, being thus made to divide the apace existing between the periphery of the disc and the circumference of the casing into two parts, with one of which the suction-pipe communicates, while the delivery pipe communicates through the slit in the casing, which slit is covered externally by a water-tight box or compartment formed or fixed to the casing, and in this com-partment is a lever, to the one end of which the before-mentioned slife is commeted ; the other end of the lever is fixed to a spindle passing through a stuffing-box in the side of the compartment and carrying externally one or more levers, the end or ends of which is or are naturated by one or more cams fixed upon and revolving with the spindle of the pump-disc. The periphery of this cam or these cams is or are so formed that by their rotation they impart such motion to the external lever or levers, and con-mentioned alide is thereby made to advance and receds through the slit in the casing, in exact conformity and in close contact with the periphery of the pump-disc, according as the latter in revolving recedes through the slit in the casing, in exact on formity and in close contact with the peripher

vances towards the circumference of the casing. The apertures in the casing communicating with the suction and deli-very pipes are situated quite close together, one on each side of the alide, so that as the part of the periphery of the pump-disc which is in contact with the casing passes the delivery-aperture and the slide, it also imme-diately passes the suction-specture, and the fluid from the latter conse-quently at once begins to fill the enclosed space formed between the slide and the projection on the pump-disc, while at the same time such projec-tion drives the fluid in the space in front of it to the delivery-aperture on the other side of the slide.

2719.—ISHAM BAGGS, of 54, Chancery Lane, London, electrical engine for "Improvements in the manufacture of inflammable gases and their application to useful purposes." Patent dated Oct. 21, 1865.

their application to useful purposes." Patent dated Oct. 21, 1865. This invention relates to certain improvements in the manufacture of imfammable gases, whereby such gases are obtained and rendered appli-cable to useful purposes in a simple and inexpensive manner. In the first instance, a retort or other appropriate vessel is filled with turnings, shavings, or pieces of iron, and submitted to the action of a furnace until the whole is brought to a red heat. There is then passed through the retort or vessel a jet of steam from a boiler, such steam being thereby decomposed, as is already well known, the result of such decomposition being the production of oxide of iron and hydrogen gas, which latter should be collected as it is produced in a gasholder. Carbonio acid gas, how-ever derived or produced, is then passed through or over red-hot or ignited coke or carbon, arranged in suitable retorts or receptacles (as is well understood by persons acquainted with such operations and with the chemistry of the gases and the materials in question), and the same is then conveyed through the retort or vessel containing the oxidized iron, from which retort or vessel the hydrogen has been eliminated. The re-sult of this operation is that one volume of carbonic acid gas in passing through or over the ignited coke or carbon, takes up an additional equi-valent of the latter, and is thereby converted into two volumes of carbonic oxide gas, which latter gas then passing on through the retort or vessel variet of the nator, and is thereby converted into two volumes of chronic contact gas, which latter gas then passing on through the retoric or vessel containing the oxidized iron takes up the oxygen from the same, and is thereby again converted into carbonic acid, restoring at the same time the iron to its normal or metallic condition, capable of decomposing steam again. The process of oxidation and recovery can thus be carried on continuously for an indefinite length of time.

2745.—HYDE BATEMAN, of Barnes, Surrey, surveyor, and EDWARD GOOCH GARRARD, of Vauxhall, Surrey, wine merchant, for "Improve-ments in the construction of pumps for raising or forcing water or other liquids or fluids." Oct. 24, 1865.

This invention consists in a shallow cylindrical-shaped water chamber or vessel divided circumferentially into two parts, one of which is fixed and the other moveable by means of a lever, which projects therefrom through the outer casing of the pump.

786 .- HENEY LARKIN, of 6, Torriano Cottages, Leighton Road, London for "Improvements in James for the contraction lighton Road, London 2786. for "Improvements in lamps for the combustion of magnesium, an preparing magnesium for burning." Patent dated Oct. 28, 1865. i, and in

In order to obtain light from magnesium the metal is employed in a state In order to obtain light from magnesium the metal is employed in a state of powder, and the lamp is so arranged as to supply a continuous stream of the powder. The light is produced by the combustion of this stream of finely divided metal. At the upper part of the lamp is a funnel or reservoir in which the finely divided metal is placed, and it flows out at a small orifice at the bottom of the funnel or reservoir. The stream falls through a tube considerably larger in diameter than the orifice of the funnel or reservoir, and is ignited as it issues from the lower end of this tube, which may be surrounded by glass to protect the flame from the draughts of air. The stream of metallic particles, in falling from the orifice of the funnel or reservoir through the tube, attains such a velocity as to prevent the magnesia produced by the combustion choking the end of the tube.

It is found convenient to mix the metallic powder with sand or similar material to cause it to flow more freely from the orifice, and

to cleanse more perfectly the interior of the tube through which it falls. The intensity of the light may be regulated by employing more or less and or diluting material.

193.—EDWARD MELDRUM, of Bathgate, Linlithgow, gentlema "Improvements in the distillation of coal and shale, and in the ratus employed therein." Patent dated Oct. 30, 1865. 2793

ratus employed therein." Patent dated Oct. 30, 1865. This invention relates to a peculiar construction and arrangement of retorts, with a view to the economical distillation of coal and shale. According to this invention it is proposed to adopt a cellular arrangement of retorts, which are constructed by subdividing the longitudinal space between two brick or masonry walls by means of metal disphragme or partitions placed traversely across the space between the walls, and at suitable intervals according to the required size of each retort. Fire-clay or metal coverings are provided at the top, the whole arrangement forming a series of retorts or cells adjoining each other.

2799.-DAVID BLAIR WHITZ, of Newcastle-upon-Tyne, M.D., for " procements in centilators for mindows and other like openings." " visional protection only obtained. Dated Oct. 31, 1865.

Visional protection only optained. Jates Oct. 31, 1009. This invention consists first in constructing ventilators of an open fabrie, one end of which is secured to a spring-roller while the other end is fastened to the window-seah. On opening the seah the ventilator follow it, if already fastened to it; or the ventilator may be pulled up or down, as the case may be, to occupy the space between the seah and the window frame and be fastened to the seah. When the ventilator is not required to one the ventilator in a pring roller may er end in it winds upon the spring-roller. The position of the spring-rolle be reversed, that is to say, it may be fitted to the sash.

be reversed, that is to say, it may be fitted to the sash. The invention consists, secondly, in constructing ventilators of an open fabric or material fixed to the upper part of the inner beading of a win-dow-frame, so that it lies in the interstice which exists between the inner beading and the upper sash when this sash is closed. When the upper sash is lowered the ventilator covers the opening formed thereby. The open fabric or material used for these ventilators may have any ornamental device painted or produced thereon so as to give a pleasing annearance thereto. appearance therete

804.—ARTHUR DESLANDES, of Manchester, Lancashire, professor French, for "Certain improvements in the manufacture and produce of metallic pipes, tubes, or other similar hollow castings." A or munication. Patent dated Oct. 31, 1865. 2804

munication. Patent dated Oct. 31, 1865. At the top of a vertical hole or well three moveable cranes are arranged, and at the bottom of the well a curved railway is adapted, on which waggons move in conjunction with the ernnes. On these waggons the moulding-boxes containing moulds for a number of pipes are placed, and the moulds or cores are transmitted by the series of cranes from beneath the action of the moulding-ram, by which they are formed, over a current of heated air supplied by tubes beneath the finishing waggon. The moulding-sand, which has a vertical reciprocating motion, and which rams and hardens the sand in the moulds, and the core may either be formed in the mould simultaneously, or placed therein afterwards. When thus formed the second crane removes the waggon over the current of heated air where they may become dried, and another waggon is placed beneath the action of the ram. After they are dry the third crane passes them into a line of rails to be removed to the casting-room, by which means and process the formation of moulds and cores is rendered very rapid. rapid.

2808.—HENRY YOUNG DARRACOTT SCOTT, of Ealing, Middlesex, Lieut Colonel in the Royal Engineers, for "Improvements in the treatment and deodorization of sewage water." Patent dated Oct. 31, 1865.

and decorrection of severage water." Fatent dated Oct. 31, 1880. The object of this invention is to provide a method of getting rid, in a cheap and efficient manner, of the nuisance and danger attendant upon the discharge of sewage matter into rivers, or when used as a manure upon fields. It consists in effecting with lime, which is comparatively a cheap material, that which lime will do as well as metallic salts, and then supplementing its action, with the properties which the far more costly metallic salts—such as soluble salts of iron, manganese, zinc, and copper —possess, of locking up in a harmless form the noxious sulphuretted hydrogen. -possess hydrogen

The claims are for treating sewage water first with lime, and after-wards with metallic salts, as herein set forth; and, secondly, preparing lime compounds in a solid form, for the purpose of applying such com-pounds for the treatment and deodorization of sewage water.

2818.—CHARLES HENRY WOOD, of Jewry Chambers, Aldgate, analytical chemist, and EDWARD LOUIS BARRETT, of Thrawl Street, Spitalfields, London, manufacturing chemist, for "An improved mode of purifying gas." Provisional protection only obtained. Dated Nov. 1, 1865.

gas." Provisional protection only obtained. Dated Nov. 1, 1865. The object of this invention is to remove the sulphur, or reduce the pro-portion which at present exists in purified coal gas, by a simple economical process. This is effected by the use of the material known to alkali manu-facturers as soda-waste. It is preferred to place the soda-waste, in the state in which it is produced at the soda-works, in a vessel similar in con-struction to the oxide of iron purifiers now used at gas-works, and to pase the gas through it either before or after the gas has undergone its ordi-mary purification. But in some cases it is found desirable to boil the soda-waste with water, and to wash the gas with the resulting solution. It is preferred to employ the soda-waste in as fresh a state as possible, because it is found that by long exposure to air it undergoes oxidation, and is then not so efficient in its action.

2833. —JAMES WEBSTER, of Birmingham, Warwickshire, engineer, "Improvements in generating and applying certain gases, and apparatus to be employed therein." Patent dated Nov. 2, 1865. 1 .19

This invention relates, firstly, to the generating of gases by forcing or rents of atmospheric air through mineral turpentine, naphthaline, or N oil, or any other oil or spirit consisting of a similar base; and, second to the apparatus to be used in making and applying such gases.

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The apparatus employed consists of a cylinder, the lower part of which is charged with the oil or spirit before named, which is done by pouring it in through a tube into a reservoir, whence it descends into the cylinder by a pipe. Air is forced into the oil or spirit by bellows worked by a treddle, by which the air is driven through the tube and is discharged into the drum or reservoir. To this drum is connected a series of vertical tubes extending from the under side of the drum to the bottom of the cylinder. These tubes are by preference formed alternately of copper and zinc, and have their lower ends immersed in the oil or spirit, the upper ends being fixed in a block of wood or other non-conductor. By the action of the bellows air is forced through the tube into the drum, and thence through the vertical tubes into the oil or spirit, and in its passage absorbs a portion of the oil or spirit, driving it up the outer cylinder in the space around the tubes, into and through the body of the cylinder, and through the upper part of the cylinder is charged, whence it issues in the form of gas by a pipe. When using this apparatus as a blow-pipe, which is conset it would be the or into the spire.

gas by a pipe. When using this apparatus as a blow-pipe, which is one of its most important forms of application, a flexible tube is attached to the pipe, to which is fixed a two-way nozele-pipe. The gases issuing from the cylinder and through the flexible tube are stopped by a stop-cock, which regulates the supply to the two tubes above it. These two tubes meet again at a junctice, whence they are conveyed to the nozele by two tubes, one within the other. The outer tube is in section about sixteen times the area of the inner one, but the inner one takes about sixteen times more gas than the outer one, the latter being used only to maintain igni-tion. The gas being lighted in the nozele, and the bellows worked by the treddle, an excessively strong heat is produced, and can be maintained until the whole of the oil or spirit has been consumed.

#### 2848--WILLIAM BRETT, of the Gas-Works, Hertford, Hertfordshire, for "An improved truck or barrow for wheeling and tipping coke, coal, or other substances." Patent dated Nov. 4, 1865.

other substances." Patent dated Nov. 4, 1865. This invention consists of a hollow semi-cylindrical shaped holder, the sides and bottom or periphery of which are made of a number of plates or hoops of iron, between which plates and hoops respectively, both at the sides and bottom, openings of about an inch in width, more or less, are left. The object of these openings is to cause the heated mass of gas coke, furnace cinders, or other hot material, to be acted upon by the external atmosphere, and be more rapidly cooled, thus lessening its injurious effect on the holder. This holder, which forms the body of the truck or barrow, is mounted upon two standards of a cranked axle, the latter being supported on travelling wheels. The eranked axle, the latter being supported upon its own axis (which is independent of that of the wheels) while both frame and wheels remain stationary. It can also be turned over bottom upwards, or nearly so, by raising the shaft of the travelling frame.

#### APPLICATIONS FOR LETTERS PATENT.

- 1787.—WILLIAM CHESNEY, of Willenhall, in the co. of Stafford, for "Improvements in the manufacture of water and steam cocks or stop-values; applicable also for other like purposes." July 6, 1866.
- 1788.—ENOCH HARRISON AYDON, of Wandsworth, in the co. of Surrey, civil engineer, and EDWARD FIELD, of Chandos Chambers, Adelphi, in the city of Westminster, consulting engineer, for "Improcements in drawing or exhausting and forcing fluids, and in instruments or appa-ratus applicable to such purposes." July 6, 1866.
- 1827.—WILLIAM GLASSFORD WALKER and ROBERT FRAZER SMITH, both of Kilmarnock, in the co. of Ayr, N.B., for "A cortain improved method of producing illuminating gas." July 12, 1866.
- 329.—WILLIAM READE, of 4, Clayton Square, Liverpool, in the co-of Lancaster, gentleman, for "Improvements in steam-pumps." A com-munication. July 12, 1866. 1829
- 1854.—ALEXANDER ROGER STARK, engineer, and JAMES WOODMAN, com-mercial agent, both of Woolwich, in the co. of Kent, for "Improve-ments in the means of fixing the covers of gas-retorts." July 16, 1866.

1866.—WILLIAM EDWARD GEDGE, of the firm of John Gedge and Son, of 11, Wellington Street, Strand, in the co. of Middlesex, patent agent, for "An improved gas-burner." A communication. July 17, 1866.

# GRANTS OF PROVISIONAL PROTECTION.

1348.—ALFRED VINCENT NEWTON, of 66, Chancery Lane, in the co. of Middlesex, mechanical draughtsman, for "Improved apparatus for ma-mifacturing illuminating gas." A communication. May 10, 1866.
 1787.—WILLIAM CHESNEY, of Willenhall, in the co. of Stafford, for "Improvements in the manufacture of water and steam cocks or stop-values; applicable also for other like purposes." July 6, 1866.

#### NOTICES TO PROCEED

625.—JAMES YOUNG, of Limefield, in the co. of Mid Lothian, N.B., gentleman, for "Improvements in distilling coal, shales, and other substances, and in the apparatus employed therein." March 1, 1866.
669.—THOMAS CLAYTON, of Manchester, for "Improvements in apparatus employed in producing illuminating gas from inflammable and volatile liquids." March 5, 1866.

710.—EDWARD THOMAS HUGHES, of the firm of Hughes and Son, patent agents, 123, Chancery Lane, London, for "Improvements in pumps." A communication. March 9, 1866.

1710.-WILLIAM ROBERT LAKE, of 8, Southampton Buildings, Chancery Lane, in the co. of Middlesex, consulting engineer, for "Improvements in the mode of distilling or separating volatile products from oils and ather fluids." A communication. June 27, 1866.

PATENTS WHICH HAVE BECOME VOID

BY REASON OF THE NON-PAYMENT OF THE ADDITIONAL STAMP DUTY OF BEFORE THE EXPIRATION OF THE THIRD YEAR.

1645 JAMES JOHN SHEDLOCK, "Improvements in wet gas-meters." July 2, 1863

1706. JAMES SHITH and SYDNEY ARCHUR CHEASE, "A new description of hydraulic engine for raising water and other fluids above their common level, the fluids so raised to be used as a motive power." July 9, 1863.

1740.-JAMES MORTIMER, "Improvements in the construction and arrange-ment of develling-houses, in combination with the means employed for ventilating the same." July 13, 1863.

1749.—RICHARD ARCHIBALD BROOMAN, "Improvements in apparatus suspending chandeliers, gaseliers, and other weights." A communicati July 13, 1863.

# Parliamentary Intelligence.

# HOUSE OF LORDS.

#### MONDAY, JULY 9.

The IMPERIAL GAS CONFANY (No. 3) Bill was brought from the Com-ons, read a first time, and referred to the Examiners. The NEATH NEW GAS Bill was returned from the Commons, with the nondments agreed to. The NEW RIVER COMPANY Bill was returned from the Commons, agreed , with amendments; the said amendments were considered, and agreed to.

#### THURSDAY, JULY 12.

The GASLIGHT AND COKE and CITY OF LONDON GASLIGHT AND COKE COMPANIES Bill was referred to a Select Committee, consisting of Lord Egerton (chairman), the Earl of Huntingdon, Lord Foley, Lord Ravens-worth, and Lord Methnen, who will meet on Monday, July 16, at eleven o'clock

## FRIDAY, JULY 13.

Petitions were deposited against the IMPERIAL GAS COMPANY (No. 3) Bill, from the board of guardians of Chelses; from the Vestry of Chelses; and from owners, &c., of property in Chelses.

#### MONDAY, JULY 16.

MONDAY, JULY 16. The following Bills received the Royal Assent:—The BRIGHTON AND HOVE GENERAL GAS; KILMARNOCK WATER; SHEFFIELD UNITED GAS; UNITED GENERAL GAS COMPANY (DUBLIN); ALDERSHOT GAS AND WATER; ALLIANCE AND DUBLIN CONSUMERS GAS COMPANY; NEATH NEW GAS COMPANY; and the NEW RIVER COMPANY. The WANDSWORTH AND PUTNEY GAS Bill was read the third time, with the amendments; further amendments made, and the Bill passed, and sent to the Commons.

Petitions were deposited against the IMPERIAL GAS COMPANY (No. 3) Bill, from Earl Cadogan and others; from E. T. Smith; and from T. B.

# TUESDAY, JULY 17.

The BRIDGE OF ALLAN WATER, and the WALKEE AND WALLSEND UNION GAS Bills, were returned from the Commons, with the amendments agreed to.

reed to. The SHEFFIELD WATER Bill was read the third time, with the amend-ents; a further amendment made, and the Bill passed, and sent to the agree

ments; a further amendment made, and Commons. Commons. The WEARDALE AND SHILDON DISTRICT WATER Bill was reported from the Select Committee, with amendments.

#### THURSDAY, JULY 19.

THURSDAY, JULY 19. GASLIGHT AND COKE AND CITY OF LONDON GASLIGHT AND COKE COM-FANIES BIL.—The Select Committee reported, that it is not expedient to proceed further with the Bill. The GREENOCK AND STAWS WATER, and the GREENOCK WATEE Bills, were reported from the Select Committee, with amendments. IMPERIAL GAS COMPANY (No. 3) Bill.—The Chairman of Committees informed the House, that the provisions of the Bill were substantially the same as those of the "Imperial Gas Company Bill," passed by this House, with amendments, on the 24th of April last; leave given to proceed with the Bill, the Bill was read a second time accordingly, and committed. GLASGOW CORPORATION WATER BIL.—A Standing Order was considered (according to order), and dispensed with; and the Bill was committed.

FRIDAY, JULY 20.

The IMPERIAL GAS COMPANY (No. 3) Bill was reported, with amend-

HOUSE OF COMMONS.

#### MONDAY, JULY 16.

The BRIDGE OF ALLAN WATER, and the WALKER AND WALLSEND UNION GAS Bills, were agreed to, as amended by the Lords.

#### THURSDAY, JULY 19.

WATER-WORKS (recommitted) : charged, and the Bill withdrawn. nitted) Bill .- Order for committee read, and dis-

#### FRIDAY, JULY 20.

The WANDSWORTH AND PUTNEY GAS Bill was agreed to, as amended by the Lords.

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[July 24, 1866.

# HOUSE OF LORDS.

(Before Lord EGEBTON, Chairman ; the Earl of HUNTINGDON, Lord FOLEY, Lord RAVENSWORTH, and Lord METHUEN.) GASLIGHT AND COKE AND CITY OF LONDON GASLIGHT AND COKE

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Mr. HOPE SCOTT said it was a bill to authorize the corporation propose to un-Mr. HOPE SCOTT said it was a bill to authorize the corporation of the City London to erect gas works themselves, and to enter into competition with e existing companies by means of the eredit of the public rates and venues of the City of London, to the necessary destruction of the existing mpanies. revenues of the City of London, to the necessary destruction of the extension companies. Mr. WEBSTER: It was to erect gas-works out of London, near the Vie

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toria Docks. Mr. HOPE SCOTT said that was so, and the immediate effect of the bill, if passed, would have been to vest in the corporation the power to compete against private companies, backed with the revenues of the City of London. That became at once and evidently an unreasonable proposition, and their lordships would see how it had been met here. The committee of the other House suggested alternative plans—either an amalgamation of the several existing companies, or the disposal of the interests of those companies to some body or bodies representing the ratepayers of the metropolis. In some

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July 24, 1866.] The JOURNAL OF GAS LIGHTING mass, the most notable of which was that of Manchester, the corporation discreptly gas to the public, but in no case had any corporation been au-thorized to do so until it had acquired the interests of the existing gas com-paniss. There was no such proposal in the bill of the corporation of London the year, and the views of the committee of the House of Commons ware best learned by looking at their report in which they spoke of the conditions of upply. That bill, as he had stated, was rejected, and then came the Chartered Bill, which was carried in the House of Commons, but had since been lost. The amalgamation bill, now before their lordships, was next considered by the committee, and passed by them on the ground that it was a step in the direction indicated by their report, that "every facility should be offered by Parliament for the further extension of regu-lated monopoly in the way of the samalgamation of the existing companies," and it was quite plain that it was not inconsistent with the other alter-metry, "the disposed of the interests of the secretal companies in the polis," because it would be as easy for the corporation, not the corporation, because they wore not the parties regarded as the local authority in the City, but the Commissioners of Sewers—to take the two amalgamated concerns as it takes two concerns separately, if hereafter it should be considered de-arable. So that, at any rate, adopting the committee's report, the promoters of this fill were proceeding in the right direction in one alternative, and were doing nothing thereby to hinder the adoption hereafter of the other alternative. He would now turn to the only petition against the bill, which when was rejected. The petition commenced by talling their lordships that the present bill was pending, and then proceeded to state that "your peti-ioners are the municipal authority having the local management of the City of London." Now he (Mr. Hope Scott) called their lordships attention to the

Inost everybody. Mr. Нори Scorr: Unquestionably. The Силиман: In the House of Commons there are certain authorities limited and defined.

lines or both, it was periedly in the jower of the committee to mainter almost everybold. The Caramaar: In the House of Commons there are certain authorities limited and defined. The Caramaar: In the House of Commons there are certain suthorities there is a set of the peried that their lordships had the power to have nay one they pleased, ex-cept so far as it was limited by the practice of their lordships House, he was not there to contest. He merely stated that the right to be heard was not given in the Standing Orders of their lordships House which was given in the other House, and he knew that in this House there used to be exclusive rights of being heard which did not exist in the House of Commons. He was merely pointing to the distinction between the two, and was not there to contend that their lordships could not hear the corporation or the Thames Conservancy, or any other body which chose to ome forward and oppose the maintenance of the streets of the City ; power over the streets being unally regarded as giving a *locus standi* in the case of a bill which sought to em-power a company to break up the streets. The petition of the corporation then proceeded: "That it is resided to raise additional capital. That by the sind part is is sought to enast that the City of London Gaslight and Coke Company by amalgamation, and that the company formed by that analgamation abould be enabled to raise additional capital. That by the sind Act it is sought to enast that the City of London Gaslight and Coke Company by amalgamation, and that the power to raise addi-the undertaking of the Gaslight and Coke Company; and the said Act that it is supplicing the Gaslight and Coke Company; and the said Act that it is as allowed. "That the forme to the amalgamatid with and form part of the undertaking shall theneoforth be amalgamatid with and form part of the undertaking shall theneoforth be amalgamatid with and form part of the under

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the sprine for the convert, and it has been deficient in quality and purity, and that provides outputs to be inserted in the solid Act to limits the price and secure the purity and illuminating power of the gas to be supplied by the samaligmated company." So that there being an existing gave the Act of 1860—which regulated lates companies and all other companies in the mater-sary alternation in that Act, and having made a report to be the foundation of a new Act, the corporation thought, their lordahips would be disposed to reave the grouper price of gas, having reference to the cost of production and other purity, levering all the other companies of the metro-purity of the structure of the metro-purity of the structure of the structure of the metro-purity of the structure of the structure of the metro-purity of the structure of the structure of the metro-purity of the structure of the structure of the metro-purity of the structure of the structure of the structure of the of 1860, and that they would make special anticipatory legislation in this particular, instance, before any general Act was brought in . He main-tained that each a proposition was unreaconable. Then the petition alleged intermines of the section and the structure of the structure of the structure of the section of the structure of the structure of the structure of the structure and will be determine of the structure of the structure of the structure and will be determine of the structure of the structure of the structure and the structure of the struct

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entitled to be heard, or, if heard, that it was contrary to public policy to en-tertain the questions of the purity and price of gas on the occasion of two companies coming forward for the purpose of amalgamation, when the whole of the other companies were hereafter to be subjected to an amendment of the law; and, finally, that with regard to the removal of the works, it was simply absurd to ask that it should be done until another site had been secured to law; and, finall absurd to ask th

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Mr. WEBSTER: Do you really mean to tell their lordships that in that state of things You assume that if the corporation is to take the gas supply, they will take the whole of the City ? Witness : I should think so.

opply, they will take the whole of the City r Witness: I should think so. Mr. WEBSTER: And that the Metropolitan Board of Works would take the utaide, if there is to be a division? Witness: I am not prepared to say that that is the best division. Mr. WEBSTER: Do you know of any better ? Witness: Except the amalgamation of the companies. Mr. WEBSTER: Do you mean to say this amalgamation would facilitate companies.

Mr. WEBSTER: Do you mean to say this amalgamation would facilitate e arrangement? Witness: Yes, because they would only have one company to deal with. Mr. WEBSTER: Do you think the saving in management would be con-lerable?

Mr. WEBSTER: Do you think the saving in management would be one siderable? Witness: I do. In the first place, there would be one board instead of two, and one set of officers instead of two. With reference to the carbonizing, the City Company are rather hard pressed in winter, because they have only a small amount of storeage room; they are obliged, therefore, to make a large quantity of gas on dark days—to light up many retorts, which they are obliged afterwards to let out again. If they had the means of storeage in our large gasholders, it stands to reason they might work more econo-mically. Mr. WEBSTER: I suppose you would have no objection to a reduction of price corresponding to the saving ? Witness: That would come. Mr. WEBSTER: You would have no objection to clauses in this bill to make the reduction in price ? Witness: I do not think it is necessary. Mr. WEBSTER: But if it should turn out to be necessary you would not object?

boject ? Witness : I should object to any specific clauses being inserted in the bill, because there is already sufficient power under the General Act.

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Mr. WERSTER: You do not propose to raise any fresh capital, because you do not propose any new works, but you take borrowing powers. Mr. HOFE SCOTT: That is not in your petition. Mr. WERSTER: You do not contemplate any additional works ? Withess : We should find it necessary to lay a large main between the Mr. WERSTER: But you do not propose the erection of works upon any new site whatever ? Withess : No.

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The CHAIRMAN : There are to be new works in the way of mains. Mr. WRESTER : I do not know whether your lordships observed it, but in he preamble of the bill there is not one word about raising additional fh.

the preamble of the bill takes a set of power to borrow. Mr. RICHARDS: It says that we have no power to borrow. Gross-examination continued: We propose to supplement the production of the City works by gas from the Horseferry Road if this bill passes. We shall connect all our stations together, so that practically it will be but one shall connect all our stations together, so that practically it will be but one

SIGNI connect all our stations together, so that practically it will be but one manufactory of gas. Mr. WEBSTER: I suppose there is no question that a new site must be ac-quired, and that you must go out of the City? Witheres: Yos, but there is some difficulty in getting a site. Mr. WEBSTER: Was there any difficulty, or would there be any difficulty in getting a site for the whole of the metropolitan gas-works at Victoria Docks? Docks ? Docks ? Witness : I do not know. Mr. WEBSTER: Fou were present on the inquiry as to the City (Corpora-tion) Bill-was there any objection to that site ? Witness: There was more objection to that site than to our site. The CHARMAN: We do not want to go into the queetion of site. Mr. WEBSTER: Your total manufacture is about 1600 million cubic feet per annum. How much gas does the Chartered Company apply outside the City ? Witness : I think it is about 1100 millions antici-

Mrivess? I think it is about 1100 millions outside, and about 400 millions inside the City. Mr. WEBSTER: I think in the committee of the House of Commons you were required to make extensions of mains wo should charge to Mrivess? I think not. All extensions of mains we should charge to

at. r. WEBSTER: What will be the saving, in your opinion, by the amal-tion, under the different heads? Stness: I can hardly say what it will be; it is one of those things which 80

Witness: I can hardly say what it will be; it is one of these things which seak for themselves. Mr. WRENTER: The saving will be considerable? Witness: No doubt there will be a saving; I do not know whether it will svery considerable, but it will enable us to supply the public better. Mr. RIGHARDS: My lords, there is another engineer present—Mr. Mann, be engineer of the City Company—but I do not think myself, after the svi-nece of Mr. Evans, who is a very distinguished man as a gas engineer, that will be necessary to detain your lordships by calling any additional innease.

Be tery considerable, but it will enable us to apply the puole better.
Arr, Anames: My local, there is another engineer present-A man, fence of Kr. Evans, who is a very distinguished muse as gas angineer, that stresses will be necessary to detain your localings by calling any additional winters.
Arr W ENSTER said it was now his duty to address their localings in opportion to be preamble of this bill, and he trasted that when he had done so position to hey means and out of the gas angle of the sain of the sain of the gas angle of the sain of the provide the provide in the provide of the sain of the gas angle of the sain of the gas angle of the sain the sain of the sain of the sain of th

#### THE JOURNAL OF BAS LIBHTING, WATER SUPPLY, & SANITARY IMPROVEMENT. 592

in some degree, contained an exception in favour of any person making or supplying gas for his own use, and not making or supplying it to the public as a trade or business. If the Great Western Rallway Company could bring themselves within that exception, probably they might do what they claimed to be entitled to do. In the 4th paragraph of the bill the plaintiffs stated that the district within which they were entitled to the exclusive right of supply included the Paddington terminus of the Great Western Railway Company, and the neighbouring terminus or station at Bishop's Road of the Metropolitan Railway Company, and included the Great Western Hotel near the Paddington station, which belonged to the Great Western Railway Company.

Bishop's Road of the Metropolitan Kaliway Company, and included the Great Western Railway Company. The Vice-CHANCELLOR: I gather from the answer of the defendants that they were in existence at the time the Act passed, and were carrying on the same sort of business they do now, and that they are not general suppliers of the public with gas, but their business is confined to the Great Western Railway Company and the Great Western Hotel. Mr. BACON: The West London Junction Gas Company, Limited, was a company formed for the purpose of supplying gas in the ordinary way of trade and profit. They chose to consider the Great Western Hotel and the Great Western Railway Company as one, but they were totally distinct. The Great Western Railway Company were merely the lessons of the Great Western Hotel Company. No doubt the West London Junction Gas Com-pany, Limited, appeared to have been in existence at the time the Act of Parliament was passed, but that Act of Parliament intended to restrain all companies then in existence as well as all companies who should thereafter come into existence; and the fact that their profits had been small, it was clear they had made some profit. But if they had made no profit at all, being a commercial company established for the murpose of making and selling gas for profit, it brought them as distinctly within the prohibition of the Statute as if they had made flo,000 of profit. The object of the Act of Parliament was not for the protection of the interests of companies, but for the protection of the public, that streets might not be opened, and that a variety of other things might not happen which would occur if there was an uncontrolled rivalry between gas companies. The Legislature had, therefore, thought fit to assign particular limits to particular companies, but for the protection of the public, that streets might not be opened, and that a variety of other things might not happen which would occur if there was an uncontrolled rivalry between gas companies. The Legislature had, ther

named have agreed, as far as possible, each one to confine itself to a separate district. Mr. BACON: That was one fact among many recited in the preamble. It was undisputed that the district in which the defendants, the gas company, supplied the Great Western Railway Company, was that which by law be-longed to the plaintiffs. The Act of Parliament would be useless if the court sanctioned the making of gas in the way in which the defendants were doing it, because there might be 500 such. The opening of the streets and all the other inconveniences might be as great or greater than was the case when the Act was passed. The defendants said they supplied gas at a less price than was charged by the plaintiffs, but that could not in the slightest degree influence the judgment of the court, and he asked that the rights which the Act of Parliament had conferred upon the plaintiffs might not be abridged or injured. The railway company were the owners of the land upon which the gas-works stood at Wormwood Scrubs, and they desired, no doubt, to promote the manufacture. They agreed to make leases to them, and so on, taking securities upon the works for the repayment of the money which they advanced. But that was no making of gas by the railway company, but directly the contary. It was said they only supplied the Great Western Railway Company, what was there to prevent them supplying any other company, or house, or establishment, they might think fit, within the same limits? The VICE-CHANCELLOR: When they begin to do that you will have some

VICE-CHANCELLOR: When they begin to do that you will have some

Company of noise, or examining a graph and the series of the series.
 The Vice-CHANCELLOR: When they begin to do that you will have some other case.
 Mr. BACON denied that they could supply to the railway company, and that was the question submitted to the court upon the record.
 The Vice-CHANCELLOR: At the time of the passing of the Act the defendants company was known to be a small company connected with the Great Western Railway Company.
 Mr. BACON: Nevertheless they were prohibited, because the Act said that no company or person should make gas within the limits for profit.
 The Vice-CHANCELLOR: From the evidence taken before the committee, it appears that this "little company " was known to be in existence at the time of the passing of the Act, and were supplying the railway company.
 Mr. BACON was not seeking to interfere with any power possessed in respect of the supply of gas within the metropolis by any railway company for the railway company. That the trade was confined to one customer did not make it any less a trade or business. The Articles of Association showed that it was a trading company, and, by the obligations assumed when they came to be registered and incorporated, there could be no doubt in the world that they were making and supplying gas within the limits prohibited, with a view to profit. The question was one very much upon the construction of the Act of Parliament, and that construction would be greatly assisted by looking at the true facts of the case. If it should be assumed that the railway company ould make their own gas and supply the first way company, but as to the hotel company it was still clearer. Whatever construction might be put upon the 54th section, it was clear that by that no protection which is relief which was asked by the bill, although he did not onfine his relief which was asked by the bill, although he did not onfine his relief to the hotel, but he claimed for the plaintiffs that

592 THE JOURNAL OF GAS LIGHTING, WATER SUPPL be City would not be much more easy than dealing with an amalgamated forth was that there should be a local authority in the City and a local authority outside the City, and if that were to be so would not the passing of this hill oppose an obtacle to such an arrangement? His learned friend ould not have it both ways. He had read the report of the committee in of this hill oppose an obtacle to such an arrangement? His learned friend of the wore companies was not the kind of analgamation to carry out the spirit of its recommendation. That was a recommendation of an amalga-mation of all the companies inside and outside the City. Could it be com-twhereby an outside and an inside district was combined together in one, ould not interfore with a general measure for the amalgamation of the whereby an outside and an inside district was combined together in one, whole of the companies. He maintained that this was an objection to the premule of the bill; that it was in itself an imperfect measure; it hat it was or the work shroughout would be connected and form one establishmet. The witness told them that, if to of the City; but that it would be so. But would it not be an objection to distrib this state of things, if next session an application was made to analy in local their lordships fasting a state of the case of distribut is outed be productive of great conomy, and the case of the bill was not fatal to the bill. He told them that new works ought to be an objection by without the City? He (Mr. Wobstor) prayed their lordships to consider whether his learned friend's own argu-met was not fatal to the bill. He told their lordships fasilitate and promote a thing would be consolidated, and whereby the exciting permicious state of things by this amalgamation whereby the companies would have bey work together as one large establishment the stations in the Horeeferry from a Blackfriar, Curtain Road and Brick Lare? Thut, he sail respec-fully, would be a retrograde piece of legi

The room was then created as a second by the committee to inform counsel that the committee do not consider it expedient to proceed any further with this bill. The bill was therefore lost.

# Legal Antelligence.

VICE - CHANCELLOR'S COURT. TUESDAY, JULY 17. (Before Vice-Chancellor STUART.)

THE IMPERIAL GASLIGHT AND COKE COMPANY P. THE WEST LONDON JUNCTION GASLIGHT COMPANY, LIMITED, AND THE GREAT WESTERN RAILWAY COMPANY AND THEIR SECRETARIES.

THE IMPERIAL GASLIGHT AND CORE COMPANY P. THE WEST LONDON JUNCTION GASLIGHT COMPANY LIMITED, AND THE CREAT WESTERN RALWAY COMPANY AND THEIR SECRETARIES. Mr. BACON, Q.C., and Mr. W. H. G. BAGSHAWE, were for the plaintiffs; and Mr. OSBORNE, Q.C., and Mr. T. STEVENS, for the frailway company. Mr. BACON, in Opening the case for the plaintiffs, said the bill was filed by the Imperial Gaslight and Coke Company against the West London Junction Gas Company, Limited, and their secretary, Mr. Platt, and the Great Western Railway Company, and Mr. Saunders, their secretary. The object of it was that the West London Junction Gas Company might be re-strained from supplying gas for sale to the Great Western Railway Com-pany, or any other person within the limits in which the plaintiffs had the exclusive right to supply gas under the Metropolis Gas Act, and for an account of profits; and that the Great Western Railway Com-pany, or any other person within the limits in which the plaintiffs had the exclusive right to supply gas under the Metropolis Gas Act, and for an account of profits; and that the Great Western Railway Company might be restrained from receiving that supply. The purport of the Act of 1860 was to assign certain particular districts to the several gas companies mentioned in the preamble, and restrain them from going beyond their limits for public purposes, in order that there might not be a conflict between gas companies in the same parish or the same district. The Act receited the existence of certain companies, of which the plaintiffs were one, and that the companies, instead of supplying gas by several mains in the same dis-trict, in order to economize capital and avoid the too frequent opening of the streets. The 6th clause said—" The limits of each of the said com-panies shall be the respective districts supplied with gas by such companies is the same are defined upon four duplicate maps, signed by the R. Hon. Thomas Henry Sutton Sotheron Estcoart, and which maps have been severally deposited with the

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Great Western Railway Company to the hotel company. Although the latter supply had not yet taken place, it was clearly stated that the de-fendants intended to do so. It was stated in both the answers that from the grd of September, 1861, down to the 4th of January, 1862, the Great Western Railway Company did enter upon the works at Wormwood Scrubs and themselves manufacture gas, but on the 4th of January, 1862, the Great Western Railway Company ceased to manufacture gas, and the West London Junction Company, Limited, were themselves the sole manufac-turers. That the defendants were carrying on a trade or business was proved by their own admission that their profit had not been large though they were making profit, and expected to make further profit. The atten-tion of the plaintiff was first called to the proceedings of the defendants was stated that the supply of gas to the new hotel and the underground railway would increase the income of the company 50 per cent., and of course, pro tanto, diminish the profit which the Act of Parliament of 1860 of any intention to permit any company or person other than those mentioned in the Act, from supplying gas within the allotted district; and all that it was encessary to prove was, that it was a supply of gas for sale. The fact of supply to a single individual made it a supply of gas for sale. The fact of supply to a single individual made it as upply of gas for sale, and there is a stated hat the yware entitled to the relief which they asked by the plaintiffs, and that they were entitled to the relief which they asked by the then delivered the false.

of supply to a single individual made it a supply of gas for sale, and there-fore it was clear that the defendants were infringing the rights of the plaintiffs, and that they were entitled to the relief which they asked by the bill. The VICE-CHANCELLOR (without hearing the counsel for the defendants) then delivered the following judgment:—The case of the plaintiffs totally fails. The question turns upon the construction of the Act of Parliament applied to the undiaputed facts, as to the nature of the business which the defendants, the gas company, are carrying on. The purport of the Act of Parliament is certainly extraorlinary, and according to the language of the recital the purpose was to provent any one of the companies whose names are mentioned in the recital from encroaching upon the district that should be allotted to the others, and also to prevent the frequent breaking up of the streets for the purpose of laying pipes. But there is nothing recited at all in the Act as to the intention of the Legislature to interfore with the right of the public to be supplied with gas by anybody that could supply it best and in the cheapest way. In the body of the Act it is beyond a doubt that the enactments go greadly beyond the recital, for the 6th section— which is relied upon very properly by the plaintiffs, goes to restrain any persons whatever from manufacturing or selling gas within the limits of the districts mentioned in the Act, except those particular favoured com-panies whose names are recited in the Act. But the 5th section can describes what the exceptions are which are referred to in the 6th section; and the language of the 5th section is, I think, extremely plain. Its purport is not to interfire with the right of any company or set of persona, or any person whatever, who was engaged in manufacturing gas for his own use at the time when the Act passed, or cherwise than for the supply of the public as a trade or business. The simple question is, is this company, called the West London Junction Gas Compan

## COURT OF BANKRUPTCY. FRIDAY, JULY 13.

# (Before Mr. Commissioner HOLBOYD.)

Re TOM ABERCHOMBIE HEDLEY. Re TOM ABERCHOMBIE HEDLEY. This was the sitting for examination and discharge. The bankrupt was described in his own petition as of No. 28, Poultry, in the City of London, and of Kingswood Lodge, Mortimer Road, St. John's Wood, in the county of Middlesex. civil engineer, in co-partnership with Davis Wilson Rea, of No. 28, Poultry, in the City of London, contractor. The debts were re-turned at £1657 11s. 1d.—viz., To creditors unsecured, £1157 11s. 1d.; to creditors secured, £500. There are no assets. The bankrupt states that the amount of his expenditure for the support of himself and family for the year preceding his bankruptcy was about £800, and the year previous about the same.

the year preceding his bankruptcy was about ecosy and the same. about the same. Mr. GRORGE appeared for the bankrupt; Mr. BELLAMY for the assignees; and Messrs. VALLANCE and VALLANCE for an opposing creditor, Mr. Wal-lington, of Leamington. Mr. BELLAMY: I appear for the assignees in this case, and I have to apply that the bankrupt may be ordered to file a partnership account. The COMMISSIONER: You are assuming that I know what is passing in your mind. I was not aware that the proceedings did not disclose a part-nership. Mr. BELLAMY: The schedule of the bankrupt is as to his own private estate, but his petition shows that he is in partnership with a Mr. Rea, and

nership. Mr. BELLAMY: The schedule of the bankrupt is as to his own private estate, but his petition shows that he is in partnership with a Mr. Rea, and Mr. Rea is not a bankrupt. I think your bonour will say that we are jus-tified in asking for an account. There is no goods, cash, or trade account field

filed. Mr. WALLINGTON: I am a creditor for £165 9s. 4d.; my proof is on the file, and I want to ask the bankrupt with reference to money owing to him at the time of his bankruptey, also with reference to a bill of sale given to a Mr. Tibbitts for £200. I want to know what consideration was given for it, and what it has realized. There are no accounts filed which show it. The COMMISSIONER: He will have to file proper accounts. Mr. WALLINGTON: It is material, because of one large sum due to the

estate. The bankrupt has received a part of it, and there is no account respecting it. Bankrupt: Perhaps your honour will allow me to state that the party who has just spoken I have under an indictment for perjury.

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The COMMISSIONER desired the bankrupt not to interpose any remarks. The COMMISSIONER desired the bankrupt not to interpose any remarks. Mr. GEORGE: Perhaps your honour will allow me to state the circum-stances of this gentleman's claim. His proof, which is upon the file of these proceedings, was a matter of discussion before the registrar. This gentleman has had a true bill found against him for perjury, which is now pending, and an application was made to the registrar for the purpose of stopping my client from going on with the prosecution. Now all that he can require is the account passed by the assignee. He is the solicitor to a Board of Health, and there is a memorandum on the file respecting his claim. Under the circumstances, I think it will be better for all parties not to co into this matter. to go into this matter.

Mr. WALLINGTON: I object to this statement. The claim of the bankrupt was against the Board of Health, but the other was a charge against me individually—a charge which I am prepared to meet at the proper time. I can prove that the bankrupt received a large sum of money immediately preceding the presentation of his petition, which is not in the balance-sheet, and that he has recently applied for payment of a further large sum of money.

money. Mr. George: It is admitted that he had a claim, and, in consequence of the perjury, he was unsuccessful and had to come to the Court of Bank-

Mr. WALLINGTON: I am prepared to meet that charge.

The COMMISSIONER: All this appears to have been gone into before the registrar; the claim of Mr. Wallington is admitted as a proof, and there has been no application to set it aside. Mr. GRORE: Admitted, subject to the hearing of the indictment.

- Mr. WALLNGTON: I assure you it was nothing of the indictment. Mr. WALLNGTON: I assure you it was nothing of the kind. The registrar unconditionally received the proof. I wish to ask the bankrupt whether he has been employed by the corporation of London. The bankrupt in an excited manner made some remarks, to the effect that he objected to reply to questions put by a man under an indictment for parior.

that he objected to reply to questions put by a man above a strength for perjury. Mr. GROGGE said the weather was very warm, but he would advise his client to be a little cool in this matter. The Cosmissionzen said, if there was any exhibition of this kind again, he would adjourn the examination sine die. Bankrupt: I have been employed by the corporation of London. Mr. WALLINGTON: What has been your charge for that employment? Bankrupt: In my individual capacity none. Mr. WALLINGTON: What have you received on account of that em-loyment?

ployment? Bankrupt: A month or so before I became a bankrupt I received a

neque. Mr. WALLINGTON: A month before you became a bankrupt? Rankrunt : Yes.

- Mr. WALLINGTON: A month before you became a bankrupt : Bankrupt : Yes. Mr. WALLINGTON: Will you swear that it was not a week ? Bankrupt : I will, Mr. WALLINGTON: You will? Bankrupt : It was some time—I will not swear what time. The COMMISSIONER: You have sworn that it was about a month. Bankrupt : I cannot tell the day I received it—it was £50. I cannot tell the date—it was some time before. Mr. WALLINGTON: You say to the best of your belief it was about a month?
- onth? Baakrupt: To the best of my belief about a month. Mr. WALLINGTON: What sum did you receive? Baakrupt: £50. Mr. WALLINGTON: Is that entered in your balance-sheet?

Mr. WALLINGTON: Is that entered in your balance-sneer Bankrupt: It is not. Bankrupt: It is not. Bankrupt: Because it was a month before I thought of becoming a ankrupt. Mr. WALLINGTON: What is the amount you have sent in an account to be corporation of London for? Bankrupt: Individually none. Mr. WALLINGTON: What is the amount which you and your partner have nut in an account for to the corporation of London? Bankrupt.

In an account for to the corporation of London? Bankrupt gave no reply. Mr. GEORGE: He is asking his partner. The COMMISSIONER: If you know nothing about it, say so. Bankrupt: I do not know anything about it. Mr. WALLINGTON: What application have you made to the corporation London in respect of that matter recently?

Mr. WALLINGTON: What application have you made to the corporation of London in respect of that matter recently? Bankrupt: I have not made any application. I saw the engineer a few days ago and he struck off a certain portion of that account. I referred it to my partner, and what arrangement he made I do not know. Mr. GEORGE: The claim you made was somewhere about £200? Bankrupt: Yes. Mr. GEORGE: The claim you made was somewhere about £200? Bankrupt: Yes. Mr. GEORGE: The was the f? The COMMISSIONER: He will have to furnish a balance-sheet. Mr. WALLINGTON: Is that stated in the account? Mr. GEORGE: The we can it be? The COMMISSIONER: He will have to furnish a balance-sheet. Mr. WALLINGTON: You say you gave a bill of sale to Mr. Tibbits? Bankrupt: I did. Mr. WALLINGTON: For what amount? Bankrupt: I did. Mr. WALLINGTON: How much was it for? Bankrupt: Ny memory is not particularly good. Mr. WALLINGTON: How much was it for? Bankrupt: Ny memory is not particularly good. Mr. WALLINGTON: How long ago was that it was for £200 or £230. Mr. WALLINGTON: What was the cost of your furniture originally? Bankrupt: No; my impression is that it was for £200 or £230. Mr. WALLINGTON: What was the cost of your furniture originally? Bankrupt: No; my impression is that it did not realize the amount of the bill of sale, I am told. Mr. WALLINGTON: What was the auctioncer? Bankrupt: Every ha'pennyworth, and it did not realize the amount of the bill of sale, I am told. Mr. WALLINGTON: When was that auctioncer? Bankrupt: Mr. Lumley. They left me without a bed to lie on. Mr. WALLINGTON: When was the auctioncer? Bankrupt: Mr. Lumley. They left me without a bed to lie on. Mr. WALLINGTON: When was the ale. Mr. GEORGE: You did not sell? Bankrupt: I did not sell? Bankrupt: I did not sell? Bankrupt: I did not sell?

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The COMMISSIONER: The examination will take much longer if you donteer information.

Mr. WALLINGTON: When was the bill of sale put in force? Bankrupt: A week before the 23rd of May. Mr. WALLINGTON: Was that just preceding your bankruptoy? Bankrupt: I filed my petition on the 19th of May. Mr. WALLINGTON: Then this was a few days before you filed your petition? Bankrupt: I filed my petition in consequence of the bill of sale being up in force, and in consequence of your taxing your bill of costs. Mr. WALLINGTON: You say you have not received any of the proceeds of was be

as anle? Bankrupt: No; and I am told that it did not realize the amount of the Il of sale. Mr. WALLINGTON: Had you had any communication with Mr. Tibbitts? Bankrupt: Not at all. Mr. WALLINGTON: What was the consideration for that bill of sale? Was

Mr. WALLINGTON: What was the consideration for that bill of sale? Was for cash lent to you? Baskrapt: Whether I received £160 in cash or not I do not know. I do ot know whether the consideration was £160 in cash and 20 per cent. for sterest, which would make it £200; or whether it was £200 and £30 for iterest, I do not know. I signed the bill of sale but never read it. Mr. WALLINGTON: Was any interest due at the date of the bankruptoy? Baskrapt: There was not. Mr. WALLINGTON: What interest was reserved? Bankrapt: "20 per cast.

Mr. WALLINGTON: What interest was reserved? Baskrupt: 20 per cent. Mr. WALLINGTON: Did you keep any accounts in which you entered it? Baskrupt: I never kept an account in my life. Mr. WALLINGTON: But you have been in an extensive way of business? Baskrupt: No. never been in business; I am a professional man. Mr. WALLINGTON: Have you not been a proprietor of gas-works? Baskrupt: Yes. Mr. WALLINGTON: And never kept any accounts of them ? Baskrupt: No. Mr. WALLINGTON: Are you the lessee of any gas-works at the present me?

me? Bankrupt: Yes; one small one at Southam, in Warwickshire. Mr. WALLINGTON: Uxbridge? Bankrupt: No; I have nothing to do with them. Mr. WALLINGTON: Who has? Bankrupt: Two years ago they were taken by Messrs. Tatham and Rye. Mr. WALLINGTON: And have you had an account with the gas company? Bankrupt: I have. Mr. WALLINGTON: Owing to you? Bankrupt: No.

- Mr. WALLINGTON: Owing to you? Mr. WALLINGTON: Owing to you? Mr. WALLINGTON: When was that account? Bankrupt: No. Mr. WALLINGTON: When was that account since then? Bankrupt: No. Mr. WALLINGTON: Have you had no account since then? Bankrupt: No. Mr. WALLINGTON: Who has? Bankrupt: Tatham and Ryc. For the last two years everything has een done in their names. Mr. WALLINGTON: Was that a partnership matter? Bankrupt: Well, Mr. Rea was a partner in all my matters; but the people ho hold the lease say they will be no party to his being a partner. Mr. WALLINGTON: Was Mr. Rea a partner in the sums which you re-sived for your profeasional duties? Bankrupt: From the ist of January. He took all the money that was wing to me at the time.

Wing to me at the time. Mr. WaLLINGTON: Is that stated in the accounts? Bankrupt: It is not. I state in my petition that I am in partnership with Mr. Rea. Mr. WALLINGTON: What is Mr. Rea? Bankrupt: An accountant. Mr. WALLINGTON: Then he is not a professional man? Bankrupt: He is not. Mr. WALLINGTON: He receives the whole of your proceeds? Bankrupt: Unluckily, from your proceedings my proceeds have been ssil. fou made up your mind to put me down— The Commissioner: Now! Mr. WALLINGTON: Now, I ask whether, on the 9th of July, you wrote a siter to the corporation, signed "Hedley and Rea," asking for the balance f your account? Inster to the corporation, signed "Hedley and Rea," asking for the balance of your account?
Bankrupt : I did not.
Mr. WALLINGTON: Do you know of any such letter being written?
Bankrupt : I know such a letter was written, but whether it was on the 9th of July I do not know.
Mr. GRORGE: It was written to ask for the balance of the £200?
Bankrupt : Yes.
Mr. Wasser and the second s

Mr. GEORGE: It was written to ask for the Dalance of the 2200. Bankrupt : Yes. Mr. Wallington: I have some further questions to ask, but I will re-serve them till the accounts are filed. Mr. GEORGE: There will be a deficiency account and a cash account, but as he has not been in business he cannot furnish a goods account. The COMMISSIONER: Then he will say so. Mr. GEORGE: For six months, I suppose? Mr. WALINGTON: The adjournment will be at the cost of the bankrupt, it having become necessary because no accounts are filed. The COMMISSIONER: I is his own petition? Mr. GEORGE: Yes. The COMMISSIONER: Then he must pay the cost. The further examination was then adjourned to Thursday, Nov. 15, at twelve o'clock.

# Miscellancous flews.

#### THE EUROPEAN GAS COMPANY, LIMITED.

The Annual General Meeting of the Shareholders of this Company was held on Wednesday, July 11, at the Offices of the Company, 4, Frederick's Place, Old Jewry, London-SHEFFIELD NEAVE, Esq., in the chair. The SECRETARY read the advertisement convening the meeting, and the minutes of the proceedings of the extraordinary half-yearly general meeting of shareholders held on the 14th of February having been read and con-firmed, the report, of which the following is an abstract, was submitted to the proprietors '-proprietors :

Amiens.—Increase of lights, 549. In the statement laid before the shareholders on the l4th of February last, it was foreseen that the profits of the current year would be necessarily affected, to a great extent, by the reduction of price, equivalent to 25 per cent., submitted to in order to secure the exclusive privilege of lighting

1. C SAMILART IMPRUVEMENT. July 24, 1860.
one moiety of this city during a long term of years. The amount in question is now ascertained to be 21489, and, as the reduction of profit is only £761, it is evident that the new cancession has already reproduced more than half the amount grave up.
One of the grabolders and the entire set of purifiers, which were out of repair, have been put in good condition, at an expense of £300.
The of the grabolders and the entire set of purifiers, which were out of repair, have been put in good condition, at an expense of £300.
The one of the grabolders and the entire set of purifiers, which were out of repair, have persitively required soon afterwards; and your directors have entered into a contract for erecting the same. The foundations are now being made, but the principal part of the outlay will be deferred until the year 1867.
Therms from this establishment would be unfractures have been accessfully taken to secure new burners, without which the test alsole of gra would have been considerably leas than a some success stully taken to secure new burners, without which the test alsole of gra would have been considerably leas than the one secure for a large extension of burners in the forward y attended the efforts so made. Your directors houses, not also secure new years and the results still more unsatifactory.
Thouse, and some success that already attended the efforts so made. Your directors houses, and some success that be adhere of the station.
Should the bathing second have been considerably least the second still compares. It is probable that a favourable turn will take place in the affairs of the station.
The works are in a highly satifactory state.

the amount of 1682, and, seeing that, norwansature, the shareholders on the improvement which has taken place.
 The take of the large gasholder taken over from the French company has been on the failures previously reported, a considerable, nor targe dasholders of the failures previously reported, a considerable intervent the leakage of little importances for the failures of the failures previously reported, a considerable improvement in the profit has been realized, owing to various circumstances, the principal of which was the advantageous state of the freight market whilt grain and four were being shipped in abundance from Nantes to England. During this time your directors walled themselves of every favourable opportunity to secure vessels outwards for the convenienc of coals to this port on low terms, and thus realised a realisation of freight market while prospects of the station, which appeared so long overclouded, are brightening, and encourage the hope that the trained fatilow for the year.
 The sadifactory to be able to state that the prospects of the station, which appeared so long overclouded, are brightening, and encourage the hope that the busines of the company will now progress more rapidly than for none years part in store sentinued at work throughest the winter evening, a far more favourable statement year is and private houses.
 The sadifactory to too for this establishment it can harkeholders; but many slogether coased burning gas early in the year, and others quickly followed. A prevent gears pair.
 The retort-house has been completely renewed at an expense of fla38, and prepared for future extensions, which may be effected at very small cost when year, has been owing to change necessitate by extensions rather than by ordinary reparations and reinstatements of what has been suffered by decay. It might perhaps have been precess of this state.
 Merger and the state is supplied by the company the rental may resume its form

and Sheffield Neave, Esq.-and both auditors-Fenx Ladoroke, rsq., and winnam Jones Lewis, Esq.-retire from office at this meeting, but being eligible, will be pro-posed for re-election. The CHAIRMAN said : Gentlemen, you have heard the report, which, as re-gards the stations, is certainly a chequered one ; but you will remember that in February we pointed out that the returns of two of the stations were likely not to be altogether satisfactory. That expectation has been justified by the result. The stations, however, as a whole you must view as satisfac-tory. You must not forget that we have £1288 more of interest to pay this year than we had last, owing to an increase in the bonde issued. It perhaps may appear to some that we have been rather rapid in the amount laid out, but we anticipated the same proportion of success as in former years; and it must be confessed that the business has not increased so rapidly as we were led to expect. However, that will explain to you the demand made upon us for £1288 more than we had to meet last year. There is one pleasant feature having got into the winter months, yet, taking the five last month, we are happy to inform you that the prospect is encoursging, and the rental I hope will continue to improve. I mention that to show that if the demand made upon us should go on increasing as we were led to anticipate, we have made provision for it. I am happy to say also that we are on very sauceable terms with the authorities at all our stations, and you will readily understand that that is a most important matter. Recently we have needing under you have more from a mayor of one of the towas in promoting an object which we had to carry through. We have not this year had to trench upon the reserve-fund, but we carry a small balance to it. That at least is a sign of improvement, and shows that we do not stand still. Our rental has not in-reased much more than £2600 this year, and yet we are enabled to pay you the usual dividend out of profit. That cannot have been obtained with

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July 24, 1866.] THE JOURNAL OF GAS LIGHTING directors wisely charged a very low price for the gas which was supplied. He had no doubt next half year they would use a considerable improvement. Mr. HUGOINS inquired whether there was any probability of the board calling up any money on the new shares. The CHARMAN replied in the negative, and stated that as good financiers they would delay calls as long as possible. The mature replied in the negative, and stated that as good financiers they would delay calls as long as possible. The restring directors were unanimously re-elected. The restring directors were unanimously re-elected. The charman replied in the normality re-elected. The restring director were unanimously reservice for 34 years, and he could only any that the constant renewal of confidence on the part of the company, at all events he had been in its service for 34 years, and he could only any that the constant renewal of confidence on the part of the proprietors did not tend in any way to weaken his estimate of the compliment conferred upon him. He should continue to regard the com-pany with a paternal solicitude, and be happy to render it any service that be was able to perform. Mr. Bww said if the cohairman was the parent of the company he had had the honour of a seat at the board for nearly 20 years, and would say with the chairman that any service he could render would be mass willingly afforded. The retiring auditors were unanimously re-elected. Mr. WHITE acknowledged the vote on behalf of himself and his bother directors, and said he had recently visited the stations, and had been exceed-nigly pleased with the very good arrangements made at them, and the memor in which the works were progressing. It was a great cardit to the secretary and to overybody concorred. They might rest assured that every word which was in the report was founded on fact. The GHAIMALAN as in the report was founded on fact. The CHAIMALAN asaid there was one other person whom he should like to

paper. They owed a great deal to him, and his attention was undivided and unremitting. Mr. Lawns seconded the motion, and said the indefatigable anartions which Mr. Backler bestowed on the affairs of the company, and the very affable manner in which he received everybody, exitiled him to the warnest con-sideration of the proprietary generally. The resolution passed unanimously. Mr. BackLass thanked the meeting for passing the resolution, and said he was much gratified by the manner in which it had been proposed by the chairman and seconded. It was extremely flattering and encouraging to him to receive another mark of the approval of the ahareholders. He devoted the whole of his energies to the affairs of the company, and had great faith in its future prosperity. He considered that a great deal would depend upon the extension of the use of gas to private dwellings. They had already succeeded in getting the thin end of the wedge in at three of their stations, and they intended to push it vigorously home. France was behind England in that particular, because gas was not used largely in houses as it was in this country. However he had great confidence that it ultimately would be so used, and he would do all in his power to further it. On the motion of Mr. DEw, a vote of thanks to the auditors closed the proceedings.

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## METROPOLIS GAS SUPPLY.

CITY OF LONDON COURT OF SEWERS, GUILDHALL, TUESDAY, JULY 17.

At the Meeting of the Commissioners, this day—Mr. De JERSEY in the chair—the consideration of the appointment of gas analyst for the City was resumed. At the first meeting of the present commission it was decided to appoint that gentleman for three months; and as that term had just expired the question again came before the court. The motion being put from the chair, that Dr. Letheby be appointed the gas analyst of the City during the continuance of the present commission, Deputy BURNELL proposed that the salary of the officer should be £100 per annum.

per annum. The CHAIMMAN explained that by a resolution passed upon a former occa-sion, the court had fixed the salary at £200. Dr. LETHERN, being appealed to, stated that out of the £200 per annum fixed by the court he had to pay £100 to an assistant, whose duty it was to make examinations of the gas and furnish him with the figures, in order that the results might be laid before the court at each meeting.

Deputy SNELLING asked what became of the weekly reports so made.

Deputy SNELLING asked what became of the weekly reports so made. Dr. LETHERY said that copies were sent to each of the gas companies. He added, further, that they contained a statement aboving the maximum, minimum, and average quality of the gas supplied by each of the companies, namely, the City, the Chartered, and the Great Central; the maximum, minimum, and average quantities of sulphur in the case of each company, the pressure of water, and the number of observations taken. Deputy BURNELL pressed his proposition to reduce the payment to the gas analyst to £100 per annum. The CHAIMANN said he thought after the resolution to which he had already referred, fixing the salary at £200, the court would be placed in a false position if they entertained the proposition of Deputy Burnell at that moment. Of course it was quite competent for any member to make any provision for reviewing any of the past proceedings of the commission, but it place, but may and proper notice of motion given in the first place.

Mr. RUDETE said the real question for the court to consider, he thought, was whether it would not be better for them that day to appoint the assistant to the gas analysi at once, for it was clear that he made all the examinations and the necessary testings from which Dr. Letheby merely made up his report, which was presented weekly to the commission, and copies of which were ordered to be sent to the gas companies.

Dr. LEFHERY said it was true the assistant made, under his superintend-ence, examinations and testings of the gas, but he himself made testings several times a week, and notice when those testings were made was served upon the companies, so that their officers could be present when they were made. In point of fast, the examinations of the gas were made by himself Derenelle

personally. The CHAIRMAN observed that notice was served upon the companies by

The CHATHMAN Observed Link house was served upon the companying order of the court. Mr. RUDKIN said the Act of Parliament provided that such notice should be served, but it was that which operated so detrimentally to the gas con-sumers, for they had it in avidence before the select committee of the House of Commons that the companies could, within two hours, alter the quality of the gas-even from 10 to 15-candle gas.

Deputy Boxz said it was clear a gas analyst must be appointed, in order that the public interests might be protected, for otherwise they might depend upon it the companies would supply much worse gas than was at present obtained.

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obtained. After some further conversation, in the course of which Mr. FRICKER, Deputy FARRAR, and other members took part, an amendment was proposed by Deputy BURNELL, and seconded by Mr. RUDKIR, that Dr. Latheby he appointed gas analyst for a further period of three months. The amendment was put, and, upon a show of hands, was deelared to be negatived. Dr. Latheby was then appointed gas analyst of the City during the continuance of the commission.

CONVICTION OF A GAS COMPANY FOR SUPPLYING IMPURE GAS.—The Newcastle Gas Company have been charged before the magistrates with un-lawfully supplying gas which was not equal to that preacribed by their Act of Parliament, inasmuch as it contained more than 15 grains of sulphur to every 100 feet. The clause under which the proceedings were taken had been inserted in the Act at the instance of the corporation, who were now the complainants. It was proved by an analytical chemist that on the average there were 24 '11 grains of sulphur in every 100 feet of gas. The magistrates considered the complaint to be proved, and inflicted a penalty and costs—nearly £25.—Mechanics Magazine.

and costs—nearly £25.—Mechanics Magazine. PADDARLE ADVANCE IN THE PARCE OF GAS IN SOOTLAND.—The gas com-panies throughout Scotland appear to be fealing somewhat estioualy the great increase in the price of coals, the general advance of wages, and the fall in the price of sulphate of ammonia and naphtha. The Sdinburgh and Leith Gas Company has been compelled, we understand, to reduce its dividend from 8 to 5 per cent; the Dundee New Gas Company lately reduced its dividend from 5 to 4 per cent; and the Dundee (Old) Gas Company on Wednesday declared a dividend minus one-half of the bonus hitherto paid— being a reduction amounting to 10s. per share. All over the country gas companies are being similarly affected. Although the amount of gas con-sumed is still increasing, the expenditure connected with its manufacture is also rapidly increasing, so that there is a prospect, in a short time, of con-sumers having to pay an increased rate for it. This will be avoided by mest companies along as possible; but unless some other and more favourable turn takes place in the principal articles used, an increase in price must inevitably follow.

DR. WHITMORE'S REPORT ON THE QUALITY OF THE GAS SUPPLIED IN ST. MARYLEBONE, IN JUNE, 1866 :--

		nating Po erm Candl	Mean Pressure in 10ths of an inch.		
JUNE.	•Mean of 26 Obser- vations.		Lowest.	Highest.	Lowest
Imperial Company's gas Chartered Co.'s common gas Chartered Co.'s cannel gas	15·10 13·70 21·75	16:39 14:87 24:38	14.03 12.21 20.15	25.60 30.53 29.22	8-71 12-71 11-91

· Each observation consists of 10 readings of the photometer.

\* Each observation consists of 10 readings of the photometer. The above table shows that the illuminating power of the three games consumed in the parish during the past month has been highly satisfactory. Observations have, as usual, been made daily, and at different periods of the day, and on no occasion has the intensity of light been less than what the law requires. The Imperial gas has shown a mean light equivalent to rather more than 15 sperm candles, or 25 per cent. above the parliamentary standard, twice it exceeded 16 candles, on eleven other occasions it was over 15 candles, and on no occasion did it fall below 14 candles. The common and cannel gases of the Chartered Company gave an average light of rather more than a candle and three-quarters beyond the standard, the former being 14 per cent. in excess, and the latter nearly 9 per cent. The pressure of all the gases has been good, sometimes very high, occasionally rising to 3 inches. As regards purity, no trace of sulphuretted hydrogen has been found in either of them, whilst variable quantities of ammonia have always been present. The meter for registering the quantity of gas supplied to the apparatus for testing sulphur being out of order, no correct results, as regards the amount of this impurity, have been obtained. The above results are obtained from the Imperial Company's gas at their Fulham works, and the Horseferry Koad, Westminster.

DR. WHITMORE'S REPORT ON THE QUALITY OF THE WATER SUPPLIES IN ST. MARYLEBONE, IN JUNE, 1866 :---

JUNE.	grees or	Matter in de- grains per al galion.	<ul> <li>Loss by In Solid Mat vious c</li> </ul>	Am-	
Distilled Water	MAY, 1866.	JUNE, 1866.	MAY, 1866.	JUNE, 1866.	00
West Middlesex water Grand Junction water	18·80 18·76	17.28 17.72	0.68 0.73	0*60 0*68	
Pump in Princes St., Cavendish Sq Pump in Queen Street.		30.26		1.04	0.952
Edgware Road		74-32		3-36	1:564

The loss by incineration of the solid matter represents the amount of organis and other volatile matters contained in 70,000 grains of water.

and other volatile matters contained in 70,000 grains of water. ACCIDENT IN PARIS BY THE IGNITION OF NAPHTHA.—A fire suddenly broke out in the stables of the Cirque de l'Impératrice, in the Champa Elysées, at ten in the morning of Friday last, and notwithstanding the efforts of the firemen, who arrived almost immediately, three men were so dread-fully burnt as to leave but little hope of their recovery. They were taken to the Hôpital Beaujon in a hopeless state. All the horses were saved with the exception of four, which were burned in a dreadful manner. Their flash was, in fact, consumed on their backs, and they had to be taken to the Champ de Mars to be shot. This disaster originsted in an explosion of maphtha, a quan-tity of which was kept in a cellar below the stables. Three workmen de-scended to this store, when by ascident one of the vessels was broken, and an explosion took place. The son of the concierge was also injured. The lions were removed in safety.

#### 596 THE JOURNAL OF GAS LIGHTING, WATER SUPPLY, & SANITARY IMPROVEMENT.

[July 24, 1866.

# THE LENOIR GAS-ENGINE. By F. J. SLADE.

[From the Journal of the Franklin Institute.]

-			-0.	_					 		
	Olefiant	gas.	•								
	Light can	rbur	ett	ed 1	hyd	ros	ren				
	Hydroge	n									
	Carbonic		de								
	Nitrogen			٠	٠	٠	٠	٠	٠	٠	٠

Now, in combustion, 1 cubic foot of olefiant gas unites with 3 cubic feet of oxygen, and gives 2 cubic feet of carbonic acid and 2 of vapour of water. One cubic foot of light carburetted hydrogen unites with 2 cubic feet of oxygen, and gives 1 cubic foot of earbonic acid and 2 of vapour of water. One cubic foot of hydrogen unites with one half a cubic foot of oxygen, and gives 1 cubic foot of vapour of water. One cubic foot of carbonic oxide unites with one half a cubic foot of oxygen and gives 1 cubic foot of carbonic acid. The result of the combustion of 100 cubic feet of coal gas, therefore, will be represented as follows :--100

50 91 11

os represente							0	xygen	la	Carbonic Acid.	Vapour of Water.
Olefiant gas						7	+	. 21	vields	14	14
Light earburg	tte	l hy	dro	gen		56	÷	112		56	112
Hydrogen .			_			21	+	101	33		21
Carbonic oxid	le					11	+	56		11	-
Nitrogen .						5			**	Nitrogen 5	-
								-			
						100		149		86	147
Nitrogen asso	eial	ed 1	wit	hox	Vg	en in	air	560		560	

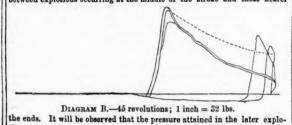


## DIAGRAM A .- 50 revolutions.

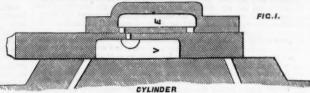
In this case, as the explosion did not occur immediately on the closing of he valve, the tension of the gases falls to 11 lbs. per square inch (above a raouum). After combustion it rises to 48 lbs. The temperature necessary o produce this pressure is found by the formulathe

$$h_{2} = \frac{P_{2} \left(1 + k \left(t_{1} - 32^{\circ}\right)\right) - P_{1}}{1 + 32^{\circ}},$$

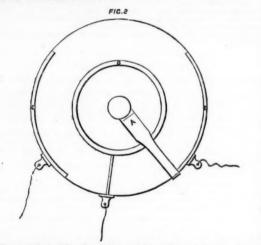
 $t_2 = \frac{r_2 \left(1 + k \left(t_1 - 32^\circ\right)\right) - r_1}{r_1 k} + 32^\circ,$ in which  $t_1 =$  temperature of the gases before combustion, taken at 200° on account of the warmth of the cylinder. To is 48 augmented in the proportion #38 and the mean coefficient of ex-pansion k of the gases under constant volume is '00204. This gives us as the temperature of the gases at the moment of combustion 2474°. The dotted line represents the theoretical curve of expansion, taking into account the loss of heat and consequent fail of pressure due to the work done (which final temperature and the grams, supposing there to be one choice (which final temperature and the cylinder is surrounded. It will be observed from this card, that the explosion takes place so late in the stroke that there is a considerable available pressure in the cylinder at the end of the stroke, which, of course, is not utilized. To present this waste, the manufacturer of these engines in this country (United States), Mr. Miers Coryell, sets the admission-valve so as to close earlier; and this has the further advantage, that at the middle of the stroke a given quantity of work is performed in less time than at the ends, and consequently there is less loss of heat. The diagrams give information which may be of interest to some as to the interest the advantage, of a second. The diagrams give information which may be of interest to some as to the interest to be about  $\frac{1}{2}$ , of a second.



sions rises somewhat higher than the true expansion curve drawn from the point attained by explosion near the middle of the stroke (which, as for this purpose, there is no work to be taken into consideration, would stand at the end of the stroke 4 '2 lbs. higher than that shown). This is probably due to the greater heat acquired by the gases before ex-plosion. It will also be noticed that the time of acquiring the maximum pressure is considerably greater in the later explosions, being  $\frac{1}{20}$  of a second in the earlier and  $\frac{1}{20}$  or more in the later. Isastly, the great loss of pressure by cooling is strikingly shown—in equal times the lines fall bolow the height due to expansion alone by an amount proportionate to the pressure that the gases would have at 32°. In the early explosions in this diagram, the pressure rises from 13 lbs. before explosion



CYLINDER To 60 lbs. after, corresponding to a temperature of 3090°. The dotted in represents, as before, the true expansion curve, including the loss of 420° of heat and resulting diminutions of pressure due to the work dons. The construction of these engines is simple, differing in but fow parti-heads, as has been intimated, are cast hollow and kept cool by a current of water passing through them. The gas and air are admitted by a slide-valve shown in Fig. 1. The gas-pipe is connected to the chamber s bolted to the cylinder, and between which and the cylinder the slide-valve wores. The gas passes through the small port shown in the back of the valve into the semi-circular channel which covers it, and through the up and out of the valve into the atmosphere. It is then drawn down again by the suction of the piston through a number of small holes into the cup of the valve, and thence into the cylinder. This ensures its thorough inture with the air, while, at the same time, it prevents the possibility of explosion, since there is nowhere any exploiter mixture scept in the cylinder the cup of the valve, the latter being in open communication with the store the holes in the valve to control the admission of air. Asoparate valve on the other side of the cylinder is used for the exhaust. As constructed in the French engines this part is a wask point on necount of the great heat to which it is subjected from the escaping gases. In the American engines, a small current of water passes through this valve and entriely removes this difficulty. *FIG.2* 



The spark for igniting the gas is supplied by a Bunsen's battery of one or two cells, and a Ruhmkorff coil giving from 100 to 150 sparks per second. It is distributed to each end of the cylinder by an arrangement shown in Fig. 2. An arm, A, insulated on the end of the shaft conducts the spark from the insulated ring, B, in connexion with the coil alternately to the segments c and n connected by wires to the respective ends of the cylinder. This arm is set so as to touch the proper segment just as the admission-valve closer.

close. To most persons it would probably appear that the great heat generated in the cylinder would be destructive of the surfaces. The writer, however, examined an engine that had been running regularly for a month, using in that time less than a quart of oil, and was suprised to find that the bore of the cylinder and the piston-rod, though dirty from deposits of impurities, were not even scratched. The explosion of the gas is unattended by any noise unless the connexions are alack. The only size as yet constructed in this country is 43 inches diameter of cylinder by 83 inches stroke, though engines of larger dimensions are in process of construction. A friction dynanometer applied to one of these gave the following result:-Length of lever . . . . . . . . . . . 4 feet.

16,280 foot-pounds per minute =  $\frac{1}{2}$ -horse power. In France there are engines of 3-horse power and upwards, but with the exorbitant prices of gas in this country, 1 or 2 horse power is probably as high a power as could economically be obtained from this motor. These engines have the advantage that the expense censes immediately with the work, which is an especial recommendation where the work is intermittent. They can be started and stopped instantly by merely turning the gas-cock. They are absolutely free from danger and do not require the attention of an engineer; hence for small powers they are cheaper than steam. On account of their safety, they are admissible in situations where steam would not be.

#### July 24, 1866.] THE JOURNAL OF BAS LIBHTING, WATER SUPPLY, & SANITARY IMPROVEMENT.

#### DISMISSAL OF THE KINGSTON-ON-THAMES

GAS-METER INSPECTOR.

At a Meeting of the Kingston-on-Thames Town Council, held on May 17, the following report from the Lighting Committee was read :---

At a meeting of the Angeson-on-Annue Fown Council, held on May 17, the following report from the Lighting Committee was read:— Your committee bag to report that they have recently received a communication from a Mr. Detheridge, of the meter testing office of the Metropoltan Board of Works, to the effect that Mr. Taunton has been stamping meters out of the limits of the borough, and that he had obtained from the Exchequer Office test gasholders, on the representations that they were required for the purposes of the corporation, and that eight of such gasholders were now being used for the purpose of stamping meters out of the borough, and within the limits of the Metropolitan Board of Works district; and it was further represented to your committee that Mr. Taunton was a short time back summoned before the Lambeth Police Court and convicted and fined £5 for breach of the is or provisions of the Sale of Gas Act, in having thus stamped gas-meters out of his district, but that, notwithstanding such conviction, he still persists in acting in contravention of the Act as the Board of Works conceive. The Board of Works further represented, through Mr. Detheridge, that they were advised by counsel that the corporation were responsible for the fees illegally re-ceived by Mr. Taunton for stamping gas-meters as aforeasid, and that, should the corporation countenance Mr. Taunton's further proceedings, steps would be taken signat the corporation swould be made, in order that he might meet Mr. Detheridge face to face, and render his answer to the matters alleged against him; but Mr. Taunton, though having duly received the letter requesting his attendance, failed to make his appearance. In consequence of his absence, and of the serious nature of the representations made, your committee instructed the town-clerk to communicate with Mr. Taunton in writing, and to ask for an explanation in reply; but, notwithstanding that suffi-cient time has elapsed to sanwer the letter, no communication has been received from him.

Mr. P. JONES having asked the direction of the council, and the report having been received, it was resolved, on the motion of Messrs. Wenman and J. Marsh-

and J. Marsu-That the council do now suspend Mr. Taunton from the office of gas inspector to the borough, and that the Lighting Committee be authorized to take the necessary legal steps, and report again to the council. The Surrey Comet, from which the above is extracted, published, on May 26, the following letters from Mr. Taunton's attorneys:-

May 26, the following letters from Mr. Taunton's attorneys:-26, Old Broad Street, London, E.C., May 24, 1866. Sir,-In last Saturday's issue of your paper you have inserted a report of the pro-eedings of the Town Council of Kingston, containing statements made which are very prejudicial to our client, Mr. Taunton, and which are untrue. Correspondence on the subject has taken place, and we enclose copy of our letters in reply to those of Mr. Wilkinson, stating the resolution of the council, and which we shall be obliged by your inserting in your next issue, in order at once to correct the effect of such report, as we do not suppose that you have any desire to injure our client. We are, sir, your obdient servants, SILLS AND GORDON.

SILE AND GORDON. 26, Old Broad Street, E.C., May 17, 1866. Sir,-Mr. Taunton has laid before us your letters of the 12th and 15th of May. On the receipt of the first he at once called at your office for information as to the representations made by Mr. Detheridge, and not having received a statement he was not prepared to attend the meeting, otherwise he would have done so. With reference to the ten gasholders, it is true that Mr. Taunton did obtain that number from the Exchequer. Two of them were not required, and were returned to the maker, and the others were fitted up and used at Kingston. Six of them are now at Kingston, and only two are in London, and those have not been used since the decision of the magistrate, that Mr. Taunton was not justified in stamping meters out of your district; but Mr. Taunton has attended at Kingston faily since that decision and stamped all meters there, and it is *simply untrue* that these holders, or any other holders, had been used by thim at various parts of the metropolis. With reference to Mr. Detheridge's statement that, " under colour of his appoint-ment, and on the representation that they were needed for the borough." Mr. Taunton had obtained the ten holders in question from the Exchequer, we would remind your bat those holders were and obtaintee or the borough. Mr. Taunton had obtained the ten holders in question from the Exchequer, we would remind your bat those holders were and obtaintee or the borough. Mr. Taunton had obtained the ten holders in question from the Exchequer, we would remind your that those holders were and to borough has ever been accorded to such a transaction as this, and to your letter generally, we would remind you and the committee of the facts. Then Mr. Taunton applied to the corporation with reference to the office of gas impector, but hesitated to ineur the risk or make the outlay on behalf of the borough if it could be avoided. Mr. Taunton then, by one of the gas journals, showed the large number of meters manuf

d paying all outlay and expenses (as appears by the agreement with him, which a have), thus relieving the borough of all risk and all outlay. Upon the faith of this agreement Mr. Taunton not only purchased apparatus and id the stamping, but also bought the land and erected the office at his own ex-nee, the express terms being that he was to obtain business from any part of the application of the state of you hav Upon paid the

pense, the express terms being that he was to obtain business from any part of the netropolis. With reference to the magistrate's decision, we have the opinion of a well-known counsel that it was wrong, but we did not consider it worth while appealing, as the penalty was only 25, and the legality of the stamps themselves we take it cannot be questioned, and therefore we submit that the corporation need be under no uneasi-ness as to the threatened proceedings for "alleged consistence". The Act was made for the accommodation of the public, and although districts are created, the restriction sought to be imposed by the Board of Works was never contemplated— indeed, it is more a personal matter of Mr. Detheridge's, against whom we have now issued a writ to stay the continued injury he is seeking to do our client. Mr. Taunon has no desire to treat either the committee or yourself with disre-spect; but he feels it necessary to assert his position against the attempted inter-ference of third persons.

W. M. Wilkinson, Esq., Town-Clerk, Kingston.

# 26, Old Broad Street, E.C., May 22, 1866. Re Taunton.

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28, 012 Broad Street, E.C., May 22, 1866. Re Taunton. Dear Sir,—This is an old-standing fight of the Board of Works with your borough far. Taunton, and as the board at last succeeded in getting Mr. Elliot to fine Mr. Taunton as for "insconduct," they take advantage of that to intimidate your Torn Council; but as Mr. Taunton since that has only stamped meters at Kings-ton, and will continue to do so, the Board of Works can do nothing more. We find that you were not in office when Mr. Taunton was appointed, in 1861 (which we find was signed by Mr. Phillips), and therefore you are ignorant of what took place at that time; but if you will refer to the Gas Joursaxi. of the 28th of January, 1862, you will refer to the Gas Joursaxi of anuary 14, 1862, the following issue of the *Swrrey Comet*, and the Gas Joursaxi. of the 28th of January, 1862, you will refer to the Gas Joursaxi. of the 28th of January, 1862, you will find that the matter was publicly discussed, and your borough insisted upon its right to do all that has since been done. We regret that the council should have put itself in a false. The order diself liable to an action for damages at the suit of Mr. Taunton; but, if yow MI refer to the agreement with him and the minutes of your board, you will that the statements is our letter are correct, and they are further corroborated by the public report in the *Surrey Comet* of the 30th of November, 1861, and you will then be better able to advise the council. The offore stated, Mr. Taunton called at your office immediately on receiving received any information, he could not properly assistance, and we rote to you as soon as we could possibly do so: and the fown Council was therefore precipitate in histophicary informationed in your letter. We put the matter thus formally (but to any feiling units in state and the ary must ask the Town Council, at their earliest con-proversion and their resolution; and therefore of council, at their earliest cou-be bactore avorde. We may seque no m

At a subsequent meeting of the Town Council, held on the 12th inst., the town-clerk read a report from the Lighting Committee, describing corre-spondence and transactions which had taken place between the town-clerk and Mr. Taunton's solicitors.

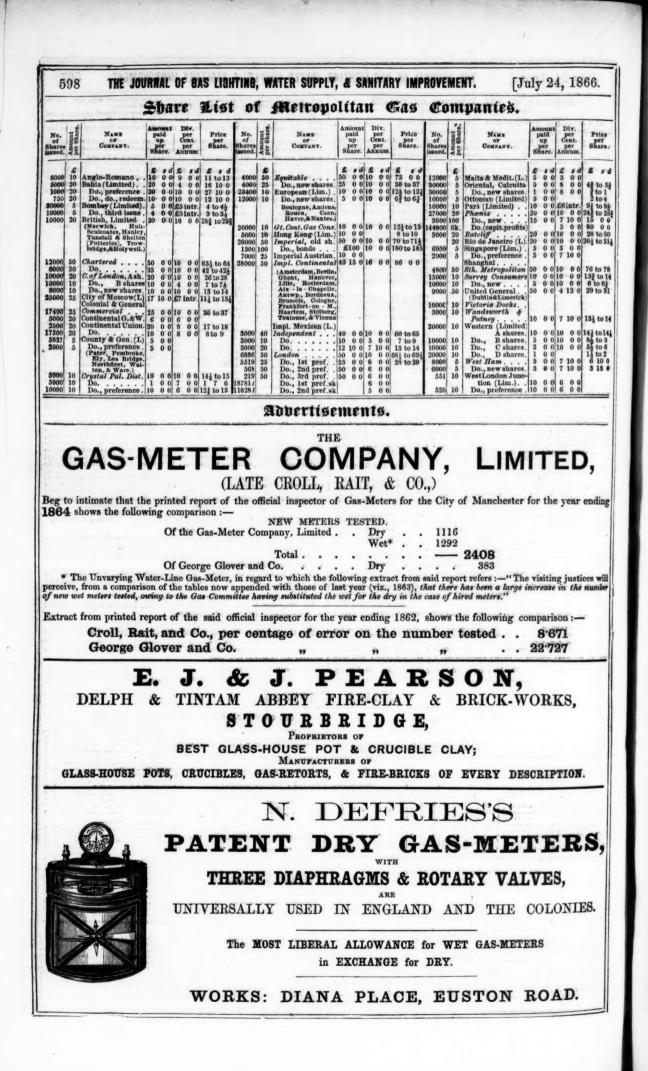
and Mr. Taunton's solicitors. Mr. B. MARSH, in the absence of Mr. P. Jones (chairman of the Lighting Committee, expressed the approval of the committee of the course taken by the town-clerk. The CLERK explained the legal position of the corporation. Mr. WENMAN, having spoken in favour of Mr. Taunton being dismissed from the office of inspector of gas-meters, Alderman WILLIAMS moved, and Mr. PAGE seconded—

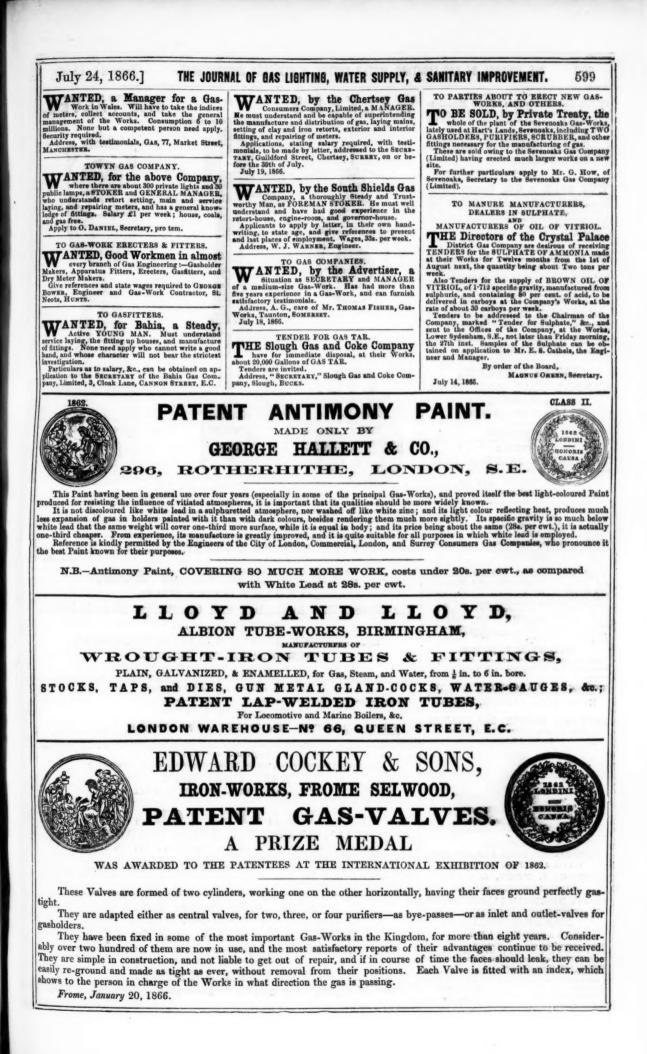
That Mr. Taunton be dismissed from his office of gas inspector of the borough for cause shown, and under the powers given to the Town Council by the Sale of Gas Act, and that the Lighting Committee be authorized to take the necessary steps for carrying this resolution into effect.

The resolution was carried.

# Drice Current.

Average Weight of	Cast-i		pipes, per			GAS COALS.—Per Ton. Newcenstle.—Unscreened :— East Castle, Haswells, Nettlesworth	FREIGHTS. Coastwiss-Newcastle,-Per Ton:- Chatham and Rochester
11/2 in.     12/2 in.     3 in     4 in.       16     21     26     33     51					10 in.   12 in. 177   208 lb	Primrose, and South Pelaw	6s.6d. Dover, Folkestone, and Ramsgate 6 Dublin
Retail Prices are 5 to 10 per cent. Lo. higher.	ndon.	Glasgow.	Newcastle	Wales.	Yorkshire, Derbyshire, and Staffordshire.	Felling, North Pelton, Bedheugh Main, Walker's Primrose, West Wear, and Whitwell Primrose Burnhope, Craghead, Charlaw, Der- went, Edmondsley, Eighton Moor,	Excter Quay 8 Ipawich 8 London (from Leith)
<ul> <li>Fig Iron, No. 1, G. M. B</li></ul>	s. d. 15 0 10 0 0 0 10 0 5 0 0 0 0 0 10 0	£. s. d. 2 13 0 6 0 0 5 10 0 5 10 0 5 15 0 5 16 0 5 10 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Hartlepool Pelaw, Holmaide, Lambtoris Gas, Lanchester Pe- law, Medomaley, Mickley, New Pelaw, New Pelton, Pelaw Main, Ravensworth, South Moor Pelton, South Leverson, Townley Main, Tyne Main, West Pelaw, Wear- mouth Hutton, and Witton Peareth, Ravensworth Pelaw, Wal-	Plymouth         .7. 3d. to           Shoreham         6           Whitstable         6           Weymouth         7           Foreign.—Per Keel.—         7           Barcelona         31           Boulogne and Calais         7           Cadlas         16
W R O U G H Subject to				З,		Brancepeth, Dean's Primrose, Pel- ton, South Peareth, Stella, Ur- peth, Washington Hutton, and	Cronstadt         7           Genenhagen         7           Hamburg         21           Hamburg         8           Harre de Grace         49.04.05           T 6         Lisbon           7         6
Patent Welded Tubes, from 2 to 12 feet-	-			8. d.	\$ in. } in. s. d. s. d. 0 5 0 44	Ramsay's Newcastle Cannel,	Welcate 09 (
Ditto ditto, from 6 inches to 18 inches- each	· 3 · 3 · 4 · 4 · 17 · 28	0 2 0 6 2 3 9 2 3 0 2 6 6 3 0 6 9 6 0 16 0	1 9 2 0 1 9 2 0 2 6 7 6 13 0 0 8 0 7	1 6 1 0 1 6 2 0 4 6 7 0 0 6	1 0 0 9 1 2 0 11 0 10 0 8 1 1 0 10 1 6 1 2 3 3 2 6 5 6 4 6 0 5 0 4 0 4 8	Borhead (at Leith)	SUNDRIES.           80         6           85         6           86         6           87         6           88         6           10gham's ditto (at Wortley), p. 1000.         21           88         6           10gham's ditto (at Wortley), p. 1000.         21           80         0         7000           80         0         7000           80         0         7000           80         0         7000           80         0         7000           80         0         7000           80         0         7000           80         0         7000           80         700         800           80         700         7000           80         700         700           80         700         7000           80         700         7000           80         7000         7000           80         7000         7000           80         7000         7000           80         7000         7000           80         7000         7000



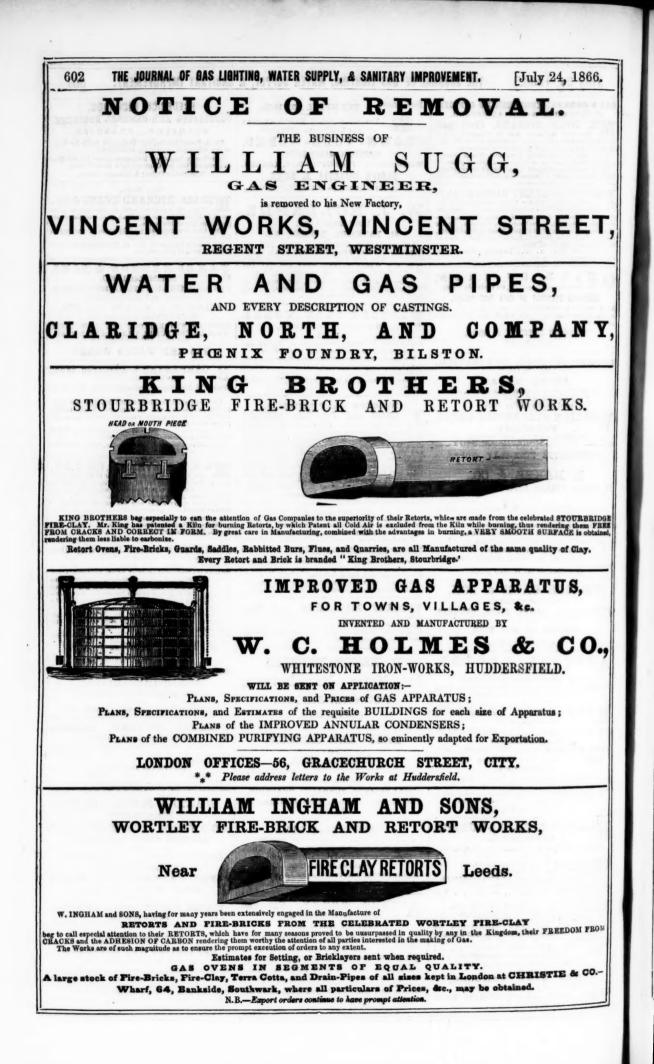


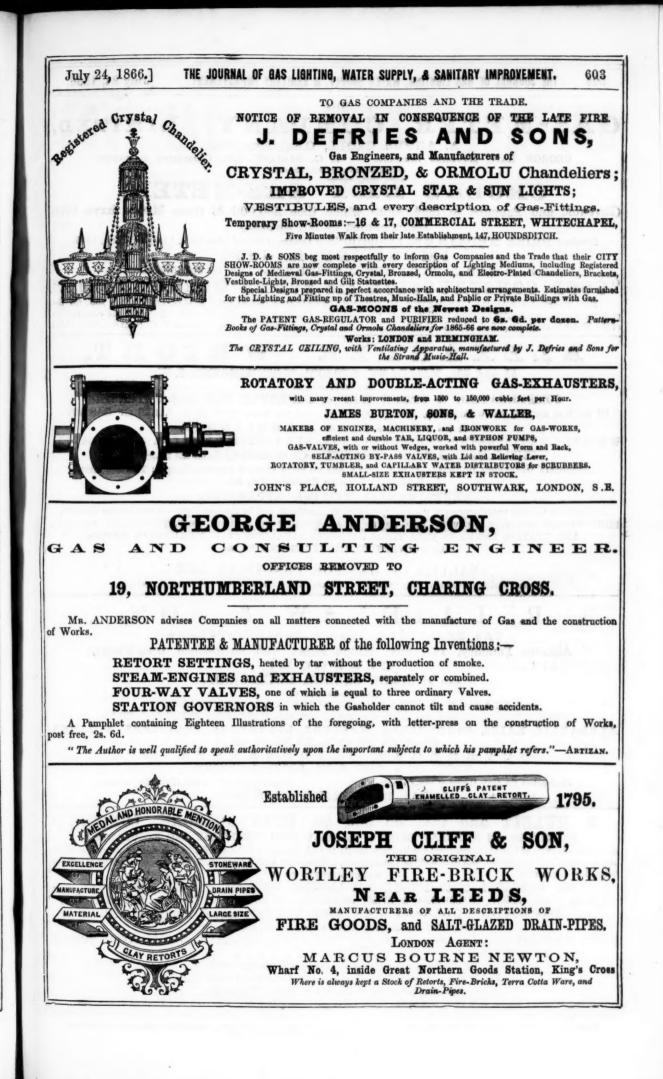


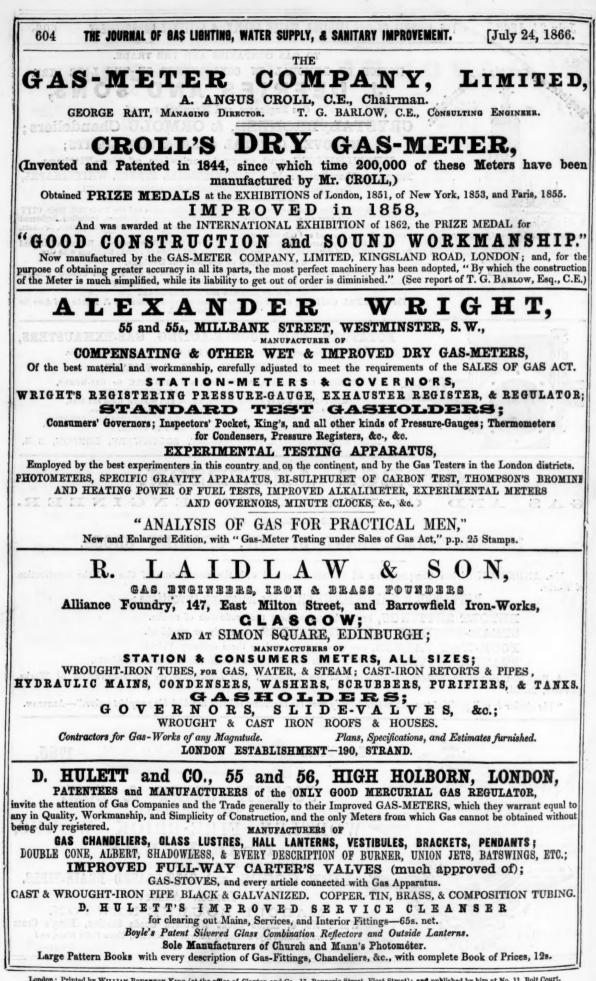


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